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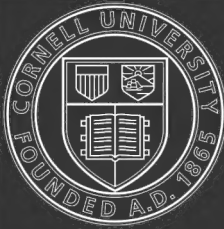
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New York State Museum

FREDERICK J. H. MERRILL Director

Bulletin 66

MISCELLANEOUS 2

INDEX TO PUBLICATIONS

OF THE

NEW YORK STATE NATURAL HISTORY SURVEY

AND

NEW YORK STATE MUSEUM

1837-1902

ALSO INCLUDING OTHER NEW YORK PUBLICATIONS ON RELATED SUBJECTS

BY

MARY ELLIS

Indexer University of the State of New York

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University of the State of New York

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New York State Museum

FREDERICK J. H. MERRILL Director

Bulletin 66

MISCELLANEOUS 2

INDEX TO PUBLICATIONS

OF THE

NEW YORK STATE NATURAL HISTORY SURVEY

AND

NEW YORK STATE MUSEUM

1837-1902

PREFACE

The New York State Museum was established at the time of the final arrangement of the collections of the Natural History Survey of New York in 1843. An act of the Legislature placing the collections in the custody of the Regents of the University was passed May 10, 1845, and the first official report was published in 1848. In 1870 a law was passed establishing the museum on a permanent basis. Till 1871 the museum was styled the State Cabinet of Natural History and appears thus on the titlepages of the early reports. For a description of the Natural History Survey of New York and the origin of the State Museum, see Museum bulletin 19, p. 240-45, Museum bulletin 56, p. 5-10, University handbook 5, also Subject index under Natural History Survey, p. 442.

The publications indexed are those of the New York State Museum from 1848-1902 inclusive; also the annual reports of the early Natural History Survey, 1837-41; the final quarto reports constituting the *Natural History of New York* published 1842-94; papers on geology and entomology in the transactions of the

New York State Agricultural Society, of the Albany Institute and in Regents reports; and entomological papers in reports of the Forest, Fish and Game Commission. Publications which will bear an imprint date later than 1902 are referred to as *In press*, or *In preparation*, and are not fully indexed.

The later museum reports have two sets of paging, the first being distinguished by the letter r prefixed to page numbers of the director's report. Dates covered by a report are in curves, followed by dates of publication. Volume and page numbers are separated by a colon; e. g. 3:141 means volume 3, page 141.

For explanatory matter referring particularly to the subject index, *see* p. 304.

In the preparation of this bulletin, the indexer has received invaluable assistance from the State Museum staff, to whom cordial acknowledgments are made.

MARY ELLIS

ABBREVIATIONS

New York State Museum. Publications. 1848-1902.

Reports	Mus. rep.
Bulletins	Mus. bul.
Memoirs	Mus. mem.
Geologist's reports	Geol. rep.
Paleontologist's reports	Pal. rep.
Entomologist's reports	Ent. rep.
Botanist's reports	Bot. rep.

Natural History Survey. Annual reports. 1837-41.

Mineralogy	Min. rep.
Geology	Geol. rep. 1st dist.
	" 2d "
	" 3d "
	" 4th "

Paleontology	Pal. rep.
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Natural History of New York. Final reports. 1842-94.

Zoology	Zool. N. Y.
Botany	Bot. N. Y.
Mineralogy	Min. N. Y.
Geology	Geol. N. Y.
Agriculture	Ag. N. Y.
Paleontology	Pal. N. Y.

Illustrations of Devonian Fossils.....Ill. Dev. Foss.

New York State Agricultural Society. Transactions..Ag. Soc. Trans.

Albany Institute. Transactions.....Alb. Inst. Trans.

LIST OF PUBLICATIONS

Any of the University publications will be sold in lots of 10 or more at 20% discount. When sale copies are exhausted, the price for the few reserve copies is advanced to that charged by secondhand booksellers to limit their distribution to cases of special need. Such prices are inclosed in brackets.

All publications are in paper covers, unless binding is specified.

Museum annual reports for 1847-1900. 1848-1902.

Price for all in print to 1892, 50 cents a volume, 75 cents in cloth; 1892-date, 75 cents, cloth.

These reports are made up of the reports of the director, geologist, paleontologist, botanist and entomologist, and museum bulletins and memoirs, issued as advance sections of the reports.

1 (for 1847) 1848. 33+39+15 p. O.

Contents: Report of Chancellor, p. 3-4; Account, p. 5; Donations 1847, p.6; Catalogue of Mammalia and Birds Ap. 11, 1818, p.7-20; Beck, L. C. Catalogue of Specimens in the Mineralogical Department of the Geological Survey, p.21-33; Hall, James. Catalogue of Specimens in the Geological Department of the Geological Survey, 39p.; Hall, James. Catalogue of Specimens in the Palaeontological Department of the Geological Survey, 15p.

2 (for 1848) 1849. 91 p. 5 pl. (lith.) O.

Contents: Report of Chancellor, p. 9-12; Account, p. 13-14; Catalogue of Quadrupeds, Birds, Reptiles, Fishes etc. added Ap. 11, 1848 to Jan. 1, 1849, p.15-23; Fitch, Asa. Catalogue of Insects Dec. 1, 1848, p.25-39; Torrey, John. Catalogue of Plants of the State of New York, of which Specimens are preserved in the Cabinet at Albany, p.41-64; List of Minerals, Geological Specimens and Fossils added 1847 and 1848, p.65-70; Catalogue of the historical and antiquarian collection, p.71-79; Morgan, L. H. Communications from, p. 81-91; Ground Plans and Dimensions of Several Trench Inclosures in Western New York or Fort Hills, 5 pl.

3 (for 1849) 1850. 175 p. illus. 28 pl. (lith.) O.

Contents: Report of Chancellor, p. 9-12; Account, p. 14-16; Catalogue of Quadrupeds, Birds, Reptiles, Amphibians, Fishes etc. added Jan. 1, 1849 to Jan. 1, 1850, p.17-26; List of Minerals, Geological Specimens and Fossils added Jan. 1, 1849 to Jan. 1, 1850, p.27-46; Additions to the Historical and Antiquarian Collection, Jan. 1, 1849 to Jan. 1, 1850, p.47-60; Catalogue of Reptiles and Amphibians Jan. 1, 1850, p.61-64; Morgan, L. H. Report upon Articles Furnished the Indian Collection, p.65-97, 18 pl.; Hough, F. B. Ancient Remains of Art in Jefferson and St

Lawrence Counties, p.99-105, 5 pl.; Beck, L. C. Mineralogy of New York, p.107-51; References to Essays and Writings on the Natural History of New York, p.153-56; Index to Volumes in the State Cabinet containing the Plants of New York, p.157-66; Hall, James. New Species of Fossils from the Trenton Limestones, p.167-75. 5 pl.

3 *rev. ed.* (for 1849) 1850. 183p. 28 pl. (lith.) O.

Contents: Report of Chancellor, p.9-12; Catalogue of Quadrupeds, Birds, Reptiles, Amphibians, Fishes etc. added Jan. 1, 1849 to Jan. 1, 1850, p.15-24; Catalogue of Reptiles and Amphibians Jan. 1, 1850, p.25-28; List of Minerals, Geological Specimens and Fossils added Jan. 1, 1849 to Jan. 1, 1850, p.29-48; Additions to the Historical and Antiquarian Collection Jan. 1, 1849 to Jan. 1, 1850, p.49-62; Morgan, L. H. Report upon Articles Furnished to the Indian Collection, p.63-95. 18pl.; Hough, F. B. Ancient Remains of Art in Jefferson and St Lawrence Counties, p. 99-105. 5 pl.; Beck, L. C. Mineralogy of New York, p. 109-53; References to Essays and Writings on the Natural History of New York, p.155-60; Index to Volumes in the State Cabinet containing the Plants of New York, p.161-72; Hall, James. New Species of Fossils from the Trenton Limestones, p. 173-83. 5 pl.

4 (for 1850) 1851. 146 p. illus. 5 pl. (lith.) O.

Contents: Report of Chancellor, p. 9-12; Account, p. 14-16; Catalogue of Quadrupeds, Birds, Reptiles, Amphibians etc. added Jan. 1, 1850 to Jan. 1, 1851, p.17-41; Fitch, Asa. Catalogue of Insects collected and arranged, p.43-69; Botany, p.71; List of Minerals, Geological Specimens and Fossils added Jan. 1, 1850 to Jan. 1, 1851, p.73-90; Additions to the Historical and Antiquarian Collection Jan. 1, 1850 to Jan. 1, 1851. p.91-101; Hough, F. B. Notices of Ancient Remains of Art in Jefferson and St Lawrence Counties, p.103-9. 5 pl.; Salisbury, J. H. Analysis of a Specimen of Hematitic Iron Ore, p.111; References to various Writings relating to the Natural History of New York that have appeared during the Year, p.113-16; Hall, James. Catalogue of Specimens of the Rocks and Fossils in the Gray Sandstone, Medina Sandstone, Clinton Group, Niagara Group, Onondaga Salt Group, and a Part of the Water-lime Group, p.117-42; Memorandum of Drawers and Boxes of Fossils, p.143-46.

5 (for 1851) 1852. 117p. illus. 22pl. (lith.) O.

Contents: Report of Chancellor, p. 9-10; Account, p. 12-14; Catalogue of Quadrupeds, Birds, Reptiles, Amphibians, Fishes etc. added Jan. 1, 1851 to Jan. 1, 1852, p.15-34. 2 pl.; Catalogue of Minerals, Geological Specimens and Fossils added Jan. 1, 1851 to Jan. 1, 1852. p.35-43; Additions to the Historical and Antiquarian Collection Jan. 1, 1851 to Jan. 1, 1852. p.45-54; References to various Writings relating to the Natural History of New York that have appeared during 1851, p.55-57; Meriam, E. Description of the Means employed to Remove the Rocks at Hellgate by Submarine Engineering, p.59-64; Materials belonging to the State, which have been used in Publishing the Natural History and the Annual Reports of the Regents received since Feb. 12, 1851, p.65-66; Morgan, L. H. Report on the Fabrics, Inventions, Implements and Utensils of the Iroquois, made Jan. 22, 1851, p.67-117. 20 pl.

6 (for 1852) 1853. 35 p. O.

Contents: Report of Chancellor, p. 7-8; Gebhard, John, jr. Statement and Proposal of, p.9-11; Catalogue of the Cabinet of Fossils of John Gebhard jr, p.12-13; Account, p.14-15; Catalogue of Quadrupeds, Birds, Reptiles, Amphibians etc. added Jan. 1, 1852 to Jan. 1, 1853, p.17-24; Catalogue of Minerals, Geological Specimens and Fossils added Jan. 1, 1852 to Jan. 1, 1853, p.25-28; Fossils which were Part of Gebhard Collection delivered by Hall to the Curator of the State Cabinet, p.29-30; Miscellaneous, p.31-32; Additions to the Historical and Antiquarian Collection Jan. 1, 1852 to Jan. 1, 1853, p.33-35.

7 (for 1853) 1854. 128p. illus. 2pl. (lith.) O.

Contents: Report of Chancellor, p.7-9; Account, p.10-11; Catalogue of Quadrupeds, Birds, Reptiles, Amphibians, Fishes etc. added Jan. 1, 1853 to Jan. 1, 1854, p.13-26; Catalogue of Mollusca, Crustacea, etc. added Jan. 1, 1853 to Jan. 1, 1854, p.27-42; Additions to the Botanical Department Jan. 1, 1853 to Jan. 1, 1854, p.43-50; List of Minerals, Geological Specimens and Fossils added Jan. 1, 1853 to Jan. 1, 1854, p.51-65; Additions to the Historical and Antiquarian Collection Jan. 1, 1853 to Jan. 1, 1854, p.67-72; Catalogue of Indian Relics, p.73-77; Cook, G. H. On the Nature of Specimens of Salt and Salt Water presented by him with an Analysis, p.79-93; Baird, S. F. On the Serpents of New York, p.95-124, 2pl.; Order of Publication of the Volumes of Natural History of New York, p.125; Materials to be used in Completing the Publication of the Natural History, p.127.

8 (for 1854) 1855. 69p. 1pl. (lith.) O.

Contents: Report of Chancellor, p. 7-8; Account, p. 9-10; Catalogue of Quadrupeds, Birds, Reptiles, Fishes etc. added Jan. 1, 1854 to Jan. 1, 1855, p.13-22; List of Minerals, Geological Specimens and Fossils added Jan. 1, 1854 to Jan. 1, 1855, p.23-31; Additions to the Historical and Antiquarian Collection Jan. 1, 1854 to Jan. 1, 1855, p.33-39; Materials to be used in Completing the Publication of the Natural History, p.41-44; Miscellaneous, p. 45-48; DeKay, J. E. Catalogue of the Fishes Inhabiting the State of New York, p. 49-69.

9 (for 1855) 1856. 64 p. illus. O.

Contents: Report of Chancellor, p.7-8; Account, p.9; Catalogue of Birds, Reptiles, Amphibians, Fishes-and Shells added Jan. 1, 1855 to Jan. 1, 1856, p.11-38; List of Minerals, Geological Specimens and Fossils added Jan. 1, 1855 to Jan. 1, 1856, p.39-48; Additions to the Historical and Antiquarian Collection Jan. 1, 1855 to Jan. 1, 1856, p.49-60; Materials to be used in Completing the Publication of the Paleontology, p.61-63.

10 (for 1856) 1857. 190p. illus. O.

Contents: Report of Chancellor, p.7-8; Account, p.9; Addresses delivered at the Inauguration of the State Geological Hall, p.11-28; Catalogue of Fossils collected by Jewett, p.29-37; Hall, James. Descriptions of Palaeozoic Fossils, p.39-180; Hall, James. On the Genus *Tellinomya* and Allied Genera, p. 181-86; Miscellaneous, p. 187-90.

- 11 (for 1857) 1858. 44 p. O.
Contents: Report of Chancellor, p. 7-9; Account, p. 10; Catalogue of Geological Specimens from England, p.11-36; Catalogue of Shells, p.37-42; Catalogue of Fossils, p.43; Miscellaneous Contributions, p.44.
- 12 (for 1858) 1859. 111 p. illus. O.
Contents: Report of Chancellor, p.3-4; Account, p.5; Hall, James. Contributions to the Palaeontology of New York, p.7-96, 110; Donations and Purchases during 1858, p.97-109; Note on the genus *Ambonychia*, p.110.
- 13 (for 1859) 1860. 128 p. illus. 24 pl. (lith.) map. O.
Contents: Report of Chancellor, p. 5-6; Account, p. 7-8; Catalogue of Mammalia, Birds, Reptiles and Fishes added Jan. 1, 1859 to Jan. 1, 1860, p.11-14; List of Deficiencies in Mammalia, Birds, Reptiles and Amphibia Inhabiting the State, p.15-16; Additions to the Cabinet, principally Fossils, p.17-18; List of Geological and Mineralogical Specimens donated by T. A. Cheney, p.19; Donations to the Historical and Antiquarian Collection from T. A. Cheney, p.20; Catalogue of the Reigen Collection of Mazatlan Mollusca presented by P. P. Carpenter, p.21-36; Cheney, T. A. Ancient Monuments in Western New York, p.37-52. 24 pl.; Hall, James. Contributions to Palaeontology, 1858 and 1859, p.53-125; Supplementary Note on Palaeontology of New York v.3, p.126-28.
- 14 (for 1860) 1861. 109p. 20pl. (lith.) O.
Contents: Report of Chancellor, p. 7-8; Account, p. 9-10; Catalogue of Additions Jan. 1, 1860 to Jan. 1, 1861, p.13-15; Lincklaen, Ledyard. Guide to the Geology of New York and to the State Geological Cabinet, p.17-85, 20 pl.; Hall, James. Contributions to the Palaeontology of New York, p. 87-110.
- 15 (for 1861) 1862. 198p. illus. 11pl. (lith.) O.
Contents: Report of Chancellor, p. 7; Account, p. 9; Donations Jan. 1, 1861 to Jan. 1, 1862, p. 13; Catalogue of Shells from John G. Anthony, p.15-21; Catalogue of Shells contributed from the Duplicates collected by the Exploring Expedition by Prof. Henry, p.23-25; Hall, James. Contributions to Palaeontology, p.27-197. 11 pl.; Jewett, Ezekiel. Letter regarding Fossils of the Chemung group, p.198.
- 16 (for 1862) 1863. 226p. illus. 16pl. (lith.) O.
Contents: Report of Chancellor, p.7; Account, p.9; Donations 1862, p.13-14; Catalogue of Collections made by the Curator 1862, p.15; Danker, H. A. List of Birds of New York noticed in Maine June 1862, p.15-16; Hall, James. Contributions to Palaeontology, p.17-226. 16 pl.; Bruyas, Jacques. Radical Words of the Mohawk Language, 123 p.
- 17 (for 1863) 1864. 60 p. O.
Contents: Report of Chancellor, p. 5-6; Report of Secretary of Regents, p.9-11; List of Deficiencies, p.12-19; Donations 1863, p.20-21; Catalogue of Additions made by the Curator 1863, p.22-23; Additions 1863 acquired by Purchase, p.23; Clinton, G. W. Plants of Buffalo and its Vicinity, p. 24-35; Meteorological Observations, p. 36-45; Annual Meteorological Synopsis for 1863, p. 46-49; Hall, James. Contributions to the Palaeontology of New York, p.50-60.

18 (for 1864) 1865. 231p. illus. 2pl. (phot.) O.

Contents: Report of Chancellor, p. 5-7; Additions 1864, p. 11-16; Ward, H. A. Wadsworth Gallery of Casts of Fossil Animals, p. 17-52. 2 pl.; Paine, J. A. Catalogue of Plants found in Oneida County and Vicinity, p. 53-192; Peck, C. H. Catalogue of Mosses, p. 193-96; Clinton, G. W. Flora of the State, p. 197-205; Results of Meteorological Observations, p. 207-31.

19 (for 1865) 1866. 80 p. O.

Contents: Report of Chancellor, p. 5-7; Special Report of the Regents in Relation to the State Cabinet of Natural History, p. 8-32; Account, p. 33; Additions 1865, p. 39-41; Peck, C. H. List of Mosses, p. 42-70; List of Plants for State Herbarium collected by H. B. Lord, p.71; Clinton, G. W. Flora of the State, p. 72-80.

20 (for 1866) 1867. 410p. illus. 21pl. (lith.) O.

Contents: Report of Chancellor, p. 5-8; Account, p. 11; Additions 1866, p.15-18; Catalogue of Shells presented by Smithsonian Institution, p.19-54; List of Specimens in the Economic Collection, p.55-57; Catalogue of Books in the Library, p.59-61; Wilson, W. D. Local Climatology, p.63-106; Meteorological Observations, p.107-40; Whitfield, R. P. Observations on the Internal Appendages of the Genus *Atrypa*, p. 141-44. 1 pl.; Notice of v.4 of the Palaeontology of New York, p.145-68; Hall, James. Introduction to the Study of the Graptolitidae, p.169-239; Hall, James. Contributions to Palaeontology, p.240-401. 16 pl.; ^aHall, James. Notes upon the Geology of some Parts of Minnesota; Note upon the Structure of the Mountain Region in the Northern Part of Georgia and Alabama, and the Adjacent Parts of Tennessee; Note upon the Geological Relations of the Oil-bearing Strata of Canada West; Peck, C. H. Flora of the State, p.403-10.

^b20 *rev. ed.* (for 1866) 1868; *issued 1870.* 447p. illus. 23pl. (lith.) Q.

Contents: Report of Chancellor, p. 9-12; Account, p. 15; Additions 1866, p.17-20; Catalogues of Shells presented by Smithsonian Institution, p.21-60; List of Specimens in Economic Collection, p.61-63; Catalogue of Books 1866, p. 64-66; Wilson, W. D. Local Climatology, p. 67-106; Results of Meteorological Observations, p. 107-41; Peters, C. H. F. Longitude of Western Boundary Line of State of New York, p. 143-57; Peck, C. H. Flora of the State, p. 159-66; Whitfield, R. P. Observations on the Internal Appendages of the Genus *Atrypa*, p. 167-72. 1 pl.; Notice of v. 4 of Palaeontology of New York, p. 173-99; Hall, James. Introduction to the Study of the Graptolitidae, p. 201-75. 4 pl.; Hall, James. Contributions to Palaeontology, p.277-345; Hall, James. New or Little Known Species of Fossils from Rocks of the Age of the Niagara Group, p. 347-438. 17 pl.

21 (for 1867) 1871. 7+190p. illus. 9pl. (phot.) 4 maps. O.

Contents: Report of Chancellor, pref. p. 5-6; Account, pref. p. 7; Report of Curator, p. 5-12; Additions 1867, p. 13-19; Schedule of Contents of

^aTitles of these three papers appear in the table of contents, but the papers were never published, except the first which was printed in the Transactions of the American Philosophical Society. 1869. 13:329-41.

^b300 copies printed.

Pickett Collection, p. 20-21; Report of Botanist, p. 23-24; Morgan, L. H. Stone and Bone Implements of the Arickarees, p. 25-46. 6 pl.; Hunt, T. S. On the Mineralogy of the Laurentian Limestones of North America, p. 47-98; Hall, James. Cohoes Mastodon, p. 99-148. 2 pl. 4 maps; Index to Reports 1-20 Exclusive of Geologic and Palaeontologic Papers, p. 149-90.

22 (for 1868) 1869. 7+113 p. map. O.

Contents: Report of Chancellor, pref. p. 5; Account, pref. p. 6; Report of Curator, p. 1-7; Additions 1868, p. 9-16; Aldrich, T. H. Partial List of Shells found near Troy, N. Y., p. 17-24; Report of Botanist, p. 25-106; Merriam, C. L. Meteorological Report, p. 107-8; Hough, F. B. Early Observations upon Magnetic Variations, p. 109-13.

23 (for 1869) 1873. 9+252p. 14pl. (lith.) O.

Contents: Report of Chancellor, pref. p. 7-8; Account, pref. p. 9; Report of Curator, p. 5-15; Additions 1869, p. 17-26; Report of Botanist, p. 27-135. 6 pl.; Lintner, J. A. Entomological Contributions, p. 137-216. 2 pl.; Speyer, A. On *Cucullia Intermedia n. sp.* and *C. Lucifuga W. V.*, p. 217-22; Hall, James & Whitfield, R. P. Descriptions of Devonian Fossils, p. 223-43. 4 pl.; Hall, James. New or Imperfectly Known Forms among the Brachiopoda, p. 244-47. 2 pl.; Hall, James. Reply to a Note on a Question of Priority, p. 248-52.

24 (for 1870) 1872. 7+232p. 9pl. (lith.) O.

Contents: Report of Chancellor, pref. p. 5; Account, pref. p. 7; Report of Director, p. 5-16; Additions 1870, p. 17-32; List of Mounted Fishes, p. 33-37; List of Fishes Received from the Smithsonian Institution in 1865, p. 39-40; Report of Botanist, p. 41-108. 4 pl.; Lintner, J. A. Entomological Contributions no. 2, p. 109-70; Colvin, Verplanck. Ascent of Mt Seward and its Barometrical Measurement, p. 171-80. 1 pl.; Hall, James & Whitfield, R. P. New Species of Fossils from the Vicinity of Louisville, Kentucky, and the Falls of the Ohio, p. 181-200a. 5 pl. in 27th rep.; Hall, James & Whitfield, R. P. Some Peculiar Impressions in Sandstone of Chemung Group, p. 201-4; Hall, James. New Species of Crinoidea and other Fossils from Strata of the Age of the Hudson River Group and Trenton Limestone, p. 205-24. 3 pl.; Hall, James. New Species of Fossils from the Hudson River Group in the Vicinity of Cincinnati, Ohio, p. 225-32. 1 pl.

25 (for 1871) 1873. 7+123p. 2pl. (lith.) O.

Contents: Report of Chancellor, pref. p. 7; Report of Director, p. 5-13; Additions 1871, p. 15-26; Contents of Gebhard Collection, p. 27-33; Long Island Mollusca presented, p. 35-38; Catalogue of European Shells presented by the Smithsonian Institution in 1869, p. 39-55; Report of Botanist, p. 57-123. 2 pl.

26 (for 1872) 1874. 6+192 p. illus. O.

Contents: Report of Chancellor, pref. p. 5-6; Report of Director, p. 5-15; Additions 1872, p. 17-25; List of Iron Ores in Economic Collection, p. 27-30; Record of Borings of Gardner Oil Well no. 3 at East Shamburg, Pennsylvania, p. 31-33; Report of Botanist, p. 35-91; Hall, James. Descriptions of Bryozoa and Corals of the Lower Helderberg Group, p. 93-116; Lintner, J. A. Entomological Contributions no. 3, p. 117-92.

- 27 (for 1873) 1875. 7+148p. 7pl. (lith.) map. O.
Contents: Report of Chancellor, pref. p. 7; Report of Director, p. 5-21; Additions 1873, p.23-40; List of Rock Specimens from Cumberland, Eng. p.41-42; List of Land and Fresh Water Shells presented by T. H. Aldrich, p. 43-46; List of Gould types of Mollusca in Museum Collection, p. 47-55; List of Building Stones in Economic Collection, p.57-71; Report of Botanist, p. 73-116. 2 pl.; Hall, James. The Niagara and Lower Helderberg Groups; their Relations and Geographical Distribution, p. 117-31; Hall, James. Descriptions of New Species of Goniatitidae. p.132-36; Lintner, J. A. Entomological Contributions, p.137-48.
- 28 (for 1874) 1879. 7+210p. 37pl. (lith.) O. (State Museum ed.)
Contents: Report of Chancellor, pref. p. 7; Report of Director, p. 5-16; Additions 1874, p.17-30; Report of Botanist, p.31-88. 2 pl.; Walcott, C. D. Discovery of the Remains of the Natatory and Branchial Appendages of Trilobites, p. 89-92; Walcott, C. D. New Species of Fossils from the Trenton Limestone, p. 93-97; Hall, James. Fauna of the Niagara Group in Central Indiana, p. 99-203. 32 pl.; Some Remarkable Crinoidal Forms from the Lower Helderberg Group, p. 205-10. 3 pl.
- 29 (for 1875) 1878. 8+2p. 2pl. (lith.) O.
Contents: Report of Chancellor, p. 7; Report of Director, p. 11-18; Additions 1875, p. 19-28; Report of Botanist, p. 29-82. 2pl.
- 30 (for 1876) 1878. 7+256 p. 4 pl. (lith.) O.
Contents: Report of Chancellor. pref. p. 7; Report of Director, p. 5-12; Additions 1876, p. 13-22; Report of Botanist, p. 23-78. 2 pl.; Leeds, A. R. Lithology of the Adirondacks, p. 79-109; Hall, J. W. & Fritz-Gaertner, R. On the Structure of *Astraeospongia meniscus*, p.111-16. 1 pl.; Lintner, J. A. Entomological Contributions no. 4, p.117-25+; Hall, James. Genus *Plumalina*, p.255-56. 1 pl.
- 31 (for 1877) 1879. 6+78p. 1pl. (lith.) O.
Contents: Report of Chancellor, pref. p.4; Report of Director, p.5-10; Additions 1877, p. 11-17; Report of Botanist, p. 19-60; Walcott, C. D. Some Sections of Trilobites from the Trenton Limestone, p. 61-65. 1 pl.; Walcott, C. D. Eggs of the Trilobite, p. 66-67; Walcott, C. D. New Species of Fossils from the Chazy and Trenton Limestones, p.68-71; Fritz-Gaertner, R. Phlogopyte, p. 72-78.
- 32 (for 1878) 1879. 7+176 p. O.
Contents: Report of Chancellor, pref. p.7; Report of Director, p.5-9; Additions 1878, p. 10-16; Report of Botanist, p. 17-72; Peck, C. H. Mosses of Caledonia Creek, p. 73-74; Lintner, J. A. Insects and Other Animal Forms of Caledonia Creek, N. Y., p. 75-99; Webster, H. E. Annelida chaetopoda of New Jersey, p.101-28; Walcott, C. D. New Species of Fossils from the Calciferous Formation, p. 129-31; Hall, C. E. Laurentian Magnetic Iron Ore Deposits in Northern New York, p. 133-40; Hall, James. Bryozoa and Corals of the Lower Helderberg Group, p. 141-76.
- 33 (for 1879) 1880. 49p. 2pl. (lith.) O.
Contents: Report of Chancellor, p. 3-4; Report of Director, p. 5-10; Report of Botanist, p. 11-49. 2 pl.

34 (for 1880) 1881. 58p. 4pl. (lith.) O.

Contents: Report of Chancellor, p. 3-4; Report of Director, p. 5-12; Additions 1880, p.13-19; Additions to the Library 1880, p.20-23; Report of Botanist, p. 24-58. 4 pl.

35 (for 1881) 1884. 481 p. 30 pl. (lith.) map. O.

Contents: Report of Chancellor, p. 5-6; Report of Director, p. 7-11; Additions 1881, p.13-18; Distribution of Duplicate Fossils and Minerals, p.19-27; List of Species in each of Ten Duplicate Collections of Fossils for High Schools and Academies, p.29-32; List of Species and Specimens of Cephalopoda, p.33-66; Crinoidea from Tentaculite Limestone, p.67; List of Unionidae of the Gould Collection, p.68-81; List of Unionidae of the New York State Collection, p.82-83; List of Unionidae of the General Collection, p.84-101; List of Land Shells of the New York State Collection, p.102-6; List of Corbiculadae of the New York State Collection, p.107; List of Land Shells of the United States in the Museum Collection, p.108-11; List of Shells presented in 1875 by Dr James Lewis, p.112-17; Statistics Relating to the State Museum, as compiled from the Report made to the Tenth Census of the United States Jan. 4, 1882, p. 118-19; Hall, J. W. Machinery and Methods of Cutting Specimens of Rocks and Fossils, p.121-24. 2 pl.; Report of Botanist, p.125-64; De Tarr, D. N. List of the Rhizopoda found in the Vicinity of Albany, N. Y., p. 165-67; Simpson, G. B. Anatomy and Physiology of *Anodonta fluviatilis*, p.169-91, 11 pl.; Wright, S. H. Aboriginal Work on Bluff Point, Yates co. N. Y., p. 193-94. 1 pl.; Wright, B. H. Geology of Yates County, N. Y., p. 195-206. 3 pl.; Walcott, C. D. New Species of Fossils from the Trenton Group of New York, p. 207-14. 1 pl.; Hall, James. Lamellibranchiate Shells of the Upper Helderberg, Hamilton and Chemung Groups, p. 215-406g; Hall, James. Fossil Corals from the Niagara and Upper Helderberg Group, p. 407-64. 8 pl.; Hall, James. Species of Fossil Reticulate Sponges Constituting the Family Dictyospongidae, p.465-82. 4pl.

36 (for 1882) 1883. 94p. 6pl. (lith.) O.

Contents: Report of Chancellor, p. 7-8; Report of Director, p. 9-15; Additions 1882, p. 17-20; List of Niagara fossils from Waldron, Indiana, p.21-25; List of Genera and Species of Brachiopoda of which Sections have been prepared for the Microscope, p.26; Report of Botanist, p.27-49; Beecher, C. E. Some Abnormal and Pathologic Forms of Fresh-water Shells from the Vicinity of Albany, N. Y., p. 51-55. 2 pl.; Hall, James. Bryozoa of the Hamilton Group, p. 57-72; Hall, James. On the Structure of the Shell in the Genus *Orthis*, p. 73-75. 2 pl.; Hall, James. New Species of *Stylonurus* from the Catskill Group, p. 76-77. 1 pl.; Beecher, C. E. List of Species of Fossils from an Exposure of Utica Slate and Associated Rocks within the Limits of the City of Albany, p.78; Murray, David, *comp.* Catalogue of the Published Works of James Hall, p. 79-94; Illustration of *Cryptozoön*, pl.6.

37 (for 1883) 1884. 68 p. O.

Contents: Report of Vice-chancellor, p. 7-9; Act to regulate the State-Museum and the Publication of the Palaeontology of the State, p. 11-12; Contract between the State of New York by the Trustees of the State-

Museum and Charles H. Van Benthuyzen, p. 12-16; Contract between the State of New York by the Trustees of the State Museum and James Hall, State Geologist, p.16-18; Report of Director, p.19-24; Current Work, p.25; Additions 1883, p.27-31; Catalogue of Translucent Sections of Rocks and Fossils, p.33-43; Report of Entomologist, p.47-60; aReport of Botanist, p. 63-68.

38 (for 1884) 1885. 138p. 3pl. (lith.) O.

Contents: Report of Chancellor, p. 3-5; Report of Director, p. 7-15; Additions 1884, p.16-20; List of Minerals in the General Collection, p. 21-60; Report of Geologist, p. 61-65; Report of Entomologist, p. 67-76; Report of Botanist, p. 77-138. 3 pl.

39 (for 1885) 1886. 229p. 12pl. (lith.) map. O.

Contents: Report of Chancellor, p. 7-8; Report of Director, p. 9-14; Additions 1885, p. 15-29; Report of Botanist, p. 30-73. 2 pl.; Report of Entomologist, p. 77-125; Simpson, G. B. Anatomy of the Snail, p. 127. 1 pl.; Webster, H. E. Annelida chaetopoda of New Jersey, p.128-59. 7 pl.; Hall, James. Obscure Organisms in Roofing Slates of Washington County, N. Y., p. 160. 1 pl.; Beecher, C. E. A Spiral Bivalve Shell from the Waverly Group of Pennsylvania, p. 161-63. 1 pl.; Smock, J. C. Crystalline Rock Region of Dutchess, Putnam and Westchester Counties, N. Y., p. 166-85; Hall, James. Building Stones, p. 186-225; Report of Geologist, p. 226-29.

40 (for 1886) 1887. 163 p. O.

Contents: Report of Vice-chancellor, p. 5-8; Report of Director, p. 11-19; Additions 1886, p. 21-34; Smock, J. C. Report of Field Work for 1886, p. 35-36; Report of Botanist, p. 37-77; Report of Entomologist, p. 79-154; Report of Geologist, p. 155-63 (Supplement to Geol. rep. 6).

41 (for 1887) 1888. 410p. illus. 9pl. (lith.) map. O.

Contents: Report of Chancellor, p. 9-11; Report of Director, p. 13-25; Additions 1887, p.27-34; Additions to Library, p.35-43; Catalogue of Gems and Precious Stones, p.44-48; Report of Botanist, p.49-122. 1 pl.; Report of Entomologist, p. 123-358; Report of Geologist, p. 359-410, 8 pl.
Contents of Geol. rep. 7 in Mus. rep. 41: Palaeontology of New York, v. 6, p. 361-78; Beecher, C. E. Synoptical Table of the Genera and Species described in v. 6 of the Palaeontology of New York, p.363-75; Synopsis of Contents of Palaeontology of New York v. 7, p. 378-80; Hall, James. Palaeontology of New York v. 8, p. 381-82; Beecher, C. E. Statement of Condition of Work on Brachiopoda, Palaeontology of New York, v. 8, p.383-84; Beecher, C. E. Lamellibranchiata, List of Genera Illus. and not Illus. on Plates of Geol. Rep. for 1882, p.385-87; Clarke, J. M. Supposed Mastodon Bones Found at Attica, N. Y., p. 388-90. 1 pl.; Hall, James. Description of New Species of Fenestellidae of the Lower Helderberg; with explanation of plates illus. species of the Hamilton group, described in Geol. rep. for 1886, p. 391-410. 8 pl.

42 (for 1888) 1889. 496p. illus. 3pl. (lith.) O.

Contents: Report of Chancellor, p. 9-13; Report of Director, p. 17-36. 1 pl.; Report of Assistant in Charge, p. 37-49; Additions to Collections,

^aTitles of four articles are enumerated but not printed here. The articles appear in Mus. bul. 2.

p.50-64; Additions to Library, p.65-74; Murray, David. Catalogue of Published Works of James Hall, p.75-97; Report of Botanist, p.99-144. 2 pl.; Report of Entomologist, p. 145-347; Report of Geologist, p. 349-496.

Contents of Geol. rep. 8 in Mus. rep. 42: Report of Geologist, p. 351-402; Palaeontology of New York, v. 7, p. 351-69; List of Type Specimens of Devonian Crustacea described in Palaeontology of New York v. 7, in the Possession of Museum, p. 370-73; Palaeontology of New York v. 8, p. 373-88; Clarke, J. M. Genera of the Palaeozoic Brachiopoda, p. 389-92; List of Microscopic Sections of Brachiopoda, p.392-93; List of Preparations for v. 8, p.393-94; List of Plates of Brachiopoda, p.394-95; Schuchert, Charles. List of Fossils in the Oriskany Sandstone of Maryland, New York and Ontario, p. 396-400; Clarke, J. M. Genus *Bron-teus* in the Chemung Rocks, p.403-5; Clarke, J. M. List of Species Constituting the known Fauna and Flora of Marcellus Epoch in N. Y., p. 406-7; Clarke, J. M. Hercynian Question, p. 408-37; Bishop, I. P. Locality of Flint Implements in Wyoming County, N. Y., p. 438-40; Catalogue of Specimens Representative of the Taconic System, p.441-44; List of Plates, Drawings, names of Draughtsmen and Lithographers for Palaeontology of New York v. 5, pt 1 and 2, v. 7 and 8, p.445-49; Record of Locality Numbers, p. 450-96.

43 (for 1889) 1890. 274p. illus. 4pl. (lith.) O.

Contents: Report of Assistant in Charge, p. 11-20; Additions to collections, p. 21-37; Additions to Library, p. 37-47; Report of Botanist, p. 49-97. 4 pl.; Report of Entomologist, p.99-205; Report of Geologist, p. 207-74.

Contents of Geol. rep. 9 in Mus. rep. 43: Report of Geologist, p. 209-27; Palaeontology of New York v. 8, p. 209-18; Geological Map of the State of New York, p. 218-27; Hall, James. Fossil Dictyospongidae of the Devonian and Carboniferous Formations, p. 227-29; Schuchert, Charles. On *Syringothyris*, Winchell, and its American Species, p.230-39; Schuchert, Charles. List of Species of the American Palaeozoic *Orthis*, *Spirifera*, *Spiriferina* and *Syringothyris*, p.240-57; Hall, James. New Forms of Dictyospongidae from the Rocks of the Chemung Group, p.258-62; Record of Locality Numbers, p.263-74.

44 (for 1890) 1892. 405 p. illus. 12 pl. (lith.) O.

Contents: Report of Director, p. 11-16; Report of Assistant in Charge, p.17-21; Additions to Collections, p.22-26; List of Catalogues of Shells published in Former Annual Reports, p.27; Catalogue of Mounted Mammals in the Collection, Sep. 30, 1890, p.28-30; Catalogue of the Collection of Mammalian Osteology, p.31-33; Report of Geologist, p.35-114, 5 pl.; Report of Botanist, p. 115-87. 4 pl.; Report of Entomologist, p. 197-405. 3 pl.

Contents of Geol. rep. 10 in Mus. rep. 44: Report of Geologist, p. 37-55; Palaeontology of New York v. 8, p. 37-44; Clarke, J. M. Genera of the Palaeozoic Brachiopoda, p.45-48; Original Drawings for Palaeontology of New York v. 8, p. 49; List of Figures for v. 8, p.49-51; Lists of Microscopic Sections of Brachiopoda, p.52-53; Clarke, J. M. Report of Assistant Palaeontologist, p.59-61; List of Accessions to the Depart-

ment of Palaeontology, p. 62-64; Hall, James. Descriptions of Bryozoa, p. 65-87; Clarke, J. M. Genus *Acidaspis*, p. 91-101. 3 pl.; Clarke, J. M. *Coronura aspectans*, p.105-9. 1 pl.; Clarke, J. M. *Terataspis grandis*, p.111-14, 1 pl.; (Additional papers in geologist's edition).

45 (for 1891) 1892. 616p. illus. 2pl. (phot.) map. O.

Contents: Report of Director, p. 11-13; Report of Assistant Director, p. 14; Report of Assistant Zoologist, p. 15-19; Additions to Collections, p. 20-28; Catalogue of Muricidae, p. 29-45; Marshall, W. B. A Deposit of Marl and Peat in the Town of New Baltimore, p. 46-52; Bishop, I. P. Salt Industry of Central New York, p. 53-61; Report of Botanist, p. 63-102; Report of Entomologist, p. 103-320. 2 pl.; Report of Geologist, p. 321-616.

Contents of Geol. rep. 11 in Mus. rep. 45: Report of Geologist, p. 323-45; Livonia Salt Shaft, p. 326-28; Palaeontology of New York, v. 8, p. 328-29; Clarke, J. M. List of Preparations of Spirals, Loops and Hinge-plates for v.8, pt2, p.330-31; List of Genera of Palaeozoic Brachiopoda, p.331-37; Additions to Palaeontological Collections, p. 338-44; Clarke, J. M. Catalogue of the Collection of Geological and Palaeontological Specimens Donated by the Albany Institute, p.347-69; Clarke, J. M. Report of Assistant Palaeontologist, p. 370-71; Clarke, J. M. List of Original and Illustrated Specimens in the Palaeontological Collections, pt 1, Crustacea, p. 373-437; Record of Localities of Extra Limal Geological and Palaeontological Collections, p.438-39; Clarke, J. M. On *Cordania*, a Proposed New Genus of Trilobites, p. 440-43; Publications of Geologist, p.444-47; Hall, James & Clarke, J. M. Introduction to the Study of the Brachiopoda, p. 449-616.

46 (for 1892) 1893. 495 p. illus. O.

Contents: Report of Director, p. 11, 62-81; Report of Assistant Director, p.12-14; Report of Assistant Zoologist, p.15-61; Additions to Zoological Collections, p.21-27; Catalogue of Zoological Collections, p.29-61; Collections of Fossils made for Palaeontology of New York Previous to 1883, p.62-65; List of Boxes of Fossils in State Hall, p.66-74; Additions to Collections in Geology and Palaeontology, p.75-77; School Collections, p.77-79; Museum Publications, p.79-81; Report of Botanist, p.83-149; Report of Geologist, p.151-288; Report of Entomologist, p.289-495.

Contents of Geol. rep. 12 in Mus. rep. 46: Report of Geologist, p. 153-87; Palaeontology of New York v. 8, pt 1, p. 160-68; Palaeontology of New York v. 8, pt 2, p. 169-71; Geological Map of the State of New York, p. 171-84; Geological Surveys and Maps of Part of the State of New York, p.184-85; Clarke, J. M. Report of Assistant Palaeontologist, p.189-95; Additions to the Geological and Palaeontological Collections 1891-92, p.196-99; Clarke, J. M. List of Original and Illustrated Specimens in the Palaeontological Collections, pt 2, Annelida and Cephalopoda, p. 201-50; Emerson, B. K. Two Boulders of a very Basic Eruptive Rock from the West Shore of Canandaigua Lake, p.251-55; Prosser, C. S. Devonian Section of Central New York along the Unadilla River, p. 256-88.

.47 (for 1893) 1894. 1137p. illus. pl. (phot.) maps. O.

Contents: Report of Director, p. 9-19; Report of Assistant Palaeontologist, p.17; Additions to Palaeontological Collection, p.18; Report of Assistant Director, p.21-30; Report of Assistant Zoologist, p.30-34; Additions to Collections, p.35-40; World's Fair Exhibits, p.41-75; Catalogue of Zoological Collections, p.77-128; Report of Botanist, p.129-74; Report of Entomologist, p. 175-97; Report of Geologist, p. 199-1137.

Contents of Geol. rep. 13 in Mus. rep. 47: Hall, James. Livonia Salt Shaft, its History and Geological Relations, p. 203-14; Luther, D. D. Geology of the Livonia Salt Shaft, p. 215-324; Clarke, J. M. Succession of the Fossil Faunas in the Section of the Livonia Salt Shaft, p. 325-52; Clarke, J. M. New or Rare Species of Fossils from the Horizons of the Livonia Salt Shaft, p. 353-83; Geological Survey of the State of New York, Reports, p. 385-751; Darton, N. H. Relations of the Helderberg Limestones and Associated Formations in Eastern New York, p. 391-422; Darton, N. H. Geology of Albany County, p. 423-55; Nason, F. L. Economic Geology of Albany County, p. 457-81; Darton, N. H. Geology of Ulster County, p. 483-566; Nason, F. L. Economic Geology of Ulster County, p. 567-600; Darton, N. H. Geology of the Mohawk Valley in Herkimer, Fulton, Montgomery and Saratoga Counties, p.601-23; Kemp, J. F. Geology of Essex County, p.625-66; Cushing, H. P. Geology of Clinton County, p. 667-83; Smyth, C. H. jr. Geology of Four Townships in St Lawrence and Jefferson Counties, N. Y., p. 685-709; Randall, F. A. Geology of Cattaraugus and Chautauqua Counties, p. 711-21; Clarke, J. M. Field Work in Chenango County, p.723-51; Clarke, J. M. *comp.* List of Publications relating to the Geology and Palaeontology of New York 1876-93, p.753-91; *Department of Palaeontology (v. 2 of Geol. rep.)* p.793-1137: Palaeontology of New York v. 8, pt 2, p. 797-802; Clarke, J. M. Evolution of the Genera of the Palaeozoic Brachiopoda, p.803-40; Description of New Species figured in v. 8, pt 2 of Palaeontology of New York, p. 841-51; Sherzer, W. H. Platycnemic man in New York, p. 853-77; Simpson, G. B. Genera of Fenestellidae, p.879-921; Simpson, G. B. Glossary and Explanations of Specific Names of Bryozoa and Corals, p.923-41; Hall, James & Clarke, J. M. Introduction to the Study of the Brachiopoda, pt 2, p.943-1137.

.48 (for 1894) 1895. v.1, 650p.+p. 93-595, illus. pl. (phot.) maps. O. v. 2 (Report of Geologist), 669p. illus. 44 pl. (lith.) other pl. (phot.) maps. O. v. 3, 44 pl. (lith.) (on edible fungi). O.

Contents, v. 1: Report of Director, p.11-39; List of Accessions, p.13; List of Awards to Mineral Exhibit at World's Fair, p.14-15; Catalogue of New York Woods, p.16-20; Catalogue of Building Stones, p.21-31; Catalogue of Rock Specimens collected by Kemp, p.32-39; Report of Geologist, p. 41-44; Marshall, W. B. Geographical Distribution of New York Unionidae, p. 45-99; Report of Botanist, p. 101-337. 44 pl. in v. 3; Report of Entomologist, p.339-635; Report of Assistant Zoologist, p. 637-47; Marshall, W. B. List of Shells Inhabiting the Vicinity of Albany and Troy, N. Y., p. 641-47; Index, p. 648-50; Bulletin 12, Ries, Heinrich. Clay Industries of New York, p. 93-262 (2d paging); Bulletin 13, Lintner, J. A. San José Scale, *Aspidiotus perniciosus* and Some

Other Destructive Scale Insects of New York State, p.263-305 (2d paging); Bulletin 14, Kemp, J. F. Geology of Moriah and Westport Townships, Essex co., p.323-55 (2d paging); Bulletin 15, Merrill, F. J. H. Mineral Resources of New York State, p.359-595 (2d paging);

Contents of Geol. rep. 14 in Mus. rep. 48 v. 2: Staff of geologist, p. 5; Report of Geologist and Palaeontologist, p.7-29; Preface to Palaeontology of New York, v. 8, pt 2, p. 21-28; Geological Survey of the State of New York, Reports, p. 31-125; Darton, N. H. Faulted Region of Herkimer, Fulton, Montgomery and Saratoga Counties, p. 31-53; Beecher, C. E. & Hall, C. E. Field Notes on the Geology of the Mohawk Valley, p. 54-56; Lincoln, D. F. Geology of Seneca County, p. 57-125; Bernard, Felix. Principles of Palaeontology ed. by J. M. Clarke, p.127-215; Ruedemann, Rudolf. Development and Growth of Diplograptus, p. 217-49. 5 pl.; Girty, G. H. Revision of the Sponges and Coelenterates of the Lower Helderberg group of New York, p. 259-309. 7 pl.; Hall, James & Clarke, J. M. New Species of Brachiopoda Described in Palaeontology of New York v. 8, pt 1 and 2, p. 323-72. 14 pl.; Simpson, G. B. Handbook of the Genera of the North American Palaeozoic Bryozoa, p. 403-669. 30 pl.

49 (for 1895) v. 1, 1897, v. 2-3, 1898. v. 1, 6+334p. illus. 6 pl. (lith.) other pl. (phot.) O. v. 2 (Report of Geologist) 738p. illus. pl. (phot.) maps. Q. v. 3 (Report of Geologist) p.739-984. illus. 47 pl. (lith.) Q.

Contents, v. 1: Report of Director, p. 1-10; Additions to Collections, p. 9-10; Report of Geologist and Paleontologist, p.11-15; Report of Botanist, p.17-83. pl.44-49; Report of Entomologist, p.85-329; Index, p.331-34.

Contents of Geol. rep. 15, v. 1 in Mus. rep. 49, v. 2: Report of Geologist and Palaeontologist, p.7-26; Geological Survey of the State of New York, Reports, p. 27-698; Clarke, J. M. Stratigraphic and Faunal Relations of the Oneonta Sandstones and Shales, the Ithaca and the Portage Groups in Central New York, p. 27-81; Prosser, C. S. Classification and Distribution of the Hamilton and Chemung Series of Central and Eastern New York, pt 1, p. 83-222; Luther, D. D. Stratigraphic position of the Portage Sandstones in the Naples Valley and the Adjoining Region, p. 223-36; Luther, D. D. Economic Geology of Onondaga County, p. 237-303; Bishop, I. P. Geology of Erie County, p. 305-92; Ries, Heinrich. Geology of Orange County, p.393-475; Smyth, C. H. jr. Crystalline Rocks of St Lawrence County, p. 477-97; Cushing, H. P. Geology of Clinton County, p. 499-573; Kemp, J. F. Geology of Essex County, p. 575-614; Prosser, C. S. & Cumings, E. R. Sections and Thickness of the Lower Silurian Formations on West Canada Creek and in the Mohawk Valley, p. 615-59; Smyth, C. H. jr. Talc Industry of St Lawrence County, p. 661-71; Ries, Heinrich. Physical tests of the Devonian Shales, p. 673-98; Ruedemann, Rudolf. Discovery of a Sessile Conularia. p. 699-728; Clarke, J. M. Crustaceans from the Chemung Group, p. 729-38.

Contents of Geol. rep. 15, v. 2 in Mus. rep. 49, v. 3: Hall, James & Clarke, J. M. Memoir on the Palaeozoic Reticulate Sponges Constituting the Family Dictyospongidae; pt 1, p. 741-984. 47 pl.

- 50 (for 1896) v. 1, 1898, v. 2, 1899. v. 1, 4+403+134p. illus. pl. (phot.) maps. O. v. 2 (Report of Geologist), 8+448p. illus. 32pl. (lith.) other pl. (phot.) maps. Q.

Contents, v. 1: Report of Director, p.1-20; Additions to Museum Collections, p.12-20; Geology of Crystalline Rocks of Southeastern New York, p.21-31; Origin of Serpentine in the Vicinity of New York, p. 32-44; Public Geologic and Mineralogic Collections in the United States and Canada, p. 45-74; Index to Report of Director, p. 75-76; Report of Botanist, p. 77-159; Report of Entomologist, p. 161-403; Bulletin 16, Beauchamp, W. M. Aboriginal Chipped Stone Implements, p. 3-84 (2d paging); Bulletin 17, Merrill, F. J. H. Road Materials and Road Building in New York p. 87-134 (2d paging).

Contents of Geol. rep. 16 in Mus. rep. 50 v. 2: Report of Geologist and Palaeontologist, pref. p.7-8; Geological Survey of the State of New York, Reports, p.1-27, 171-226; Cushing, H. P. Boundary Between the Potsdam and Precambrian Rocks North of the Adirondacks, p. 1-27; Clarke, J. M. Naples Fauna in Western New York, p. 29-161. 9 pl.; Clarke, J. M. Early Stages of Certain Goniatites, p. 163-69; Luther, D. D. Brine Springs and Salt Wells of New York and the Geology of the Salt District, p.171-226; Grabau, A. W. Faunas of the Hamilton Group of Eighteen-mile Creek and Vicinity in Western New York, p. 227-339; Hall, James & Clarke, J. M. Memoir on the Palaeozoic Reticulate Sponges Constituting the Family Dictyospongiae, pt 2, p. 341-448. pl. 48-70.

- 51 (for 1897) 1899. v.1, r153+410p. illus. 9pl. (lith.) other pl. (phot.) maps. O. v.2 (Report of Geologist), 564p. illus. pl. (phot.) maps. O.

Contents, v.1: Report of Director, p.r5-13; Additions to Collections, p.r13-20; White, T. G. Relations of the Ordovician and Eo-Silurian Rocks in Portions of Herkimer, Oneida and Lewis Counties, p.r21-54; Watson, T. L. Some Higher Levels in the Postglacial Development of the Finger-lakes, p.r55-117; Nevius, J. N. Talc Industry of St Lawrence County, N. Y., p.r119-27; Nevius, J. N. History of Cayuga Lake Valley, p.r129-53; Bulletin 18, Beauchamp, W. M. Polished Stone Articles Used by the New York Aborigines, p.3-102; Bulletin 19, Merrill, F. J. H. Guide to the Study of the Geological Collections of the New York State Museum, p.105-262; Report of Botanist, p.263-321. 9 pl.; Report of Entomologist, p.327-90; General Index, p.391-410.

Contents of Geol. rep. 17 in Mus. rep. 51, v.2: Report of Geologist and Paleontologist, p.5-7; Bishop, I. P. Petroleum and Natural Gas in Western New York, p.9-63; Prosser, C. S. Classification and Distribution of the Hamilton and Chemung Series of Central and Eastern New York, pt2, p.65-315; Eastman, C. R. Upper Devonian Fish Fauna of Delaware County, N. Y., p.317-27; Prosser, C. S. & Rowe, R. B. Stratigraphic Geology of the Eastern Helderbergs, p.329-54; Ries, Heinrich. Limestones of New York, p.355-467; Smyth, C. H. jr. Crystalline Rocks of Western Adirondack Regions, p.469-97; Kemp, J. F. & Newland, D. H. Geology of Washington, Warren and Parts of Essex and Hamilton Counties, p.499-553; Index, p.555-64.

52 (for 1898) 1900. v.1, r111+695p. illus. 6pl. (lith.) other pl. (phot.) maps. O. v.2 (Report of Geologist), 169p. illus. pl. (phot.) maps. O.

Contents, v.1: Report of Director, p.r5-17; Accessions to Collections, p.r18-32; Bagg, R. M. jr. Report of Work on the Collections of Mesozoic and Cenozoic Fossils in Geological Hall, p.r32-40; Catalogue of Mesozoic and Cenozoic Fossils, p.r40-46; Catalogue of European Fossils presented by Murchison, p.r47-71; Bagg, R. M. jr. *comp.* Synoptic Catalogue of Fossils, p.r71-78; Nevius, J. N. Fossil Plant from Orange County, p.r79-81; Nevius, J. N. Sacandaga Mining and Milling Co. and the Sutphen Process, p.r82-87; Ries, Heinrich. Notes on a Trip from Port Jervis to Rondout, p.r88-91; Bean, T. H. Fishes of Long Island, p.r92-111; Bulletin 20, Felt, E. P. Elm-leaf Beetle in New York State, p.1-43. 1pl.; Bulletin 21, Kemp, J. F. Geology of Lake Placid Region, p.47-67; Bulletin 22, Beauchamp, W. M. Earthenware of New York Aborigines, p.71-146; Bulletin 23, Report of Entomologist, p.151-205; Bulletin 24, Felt, E. P. Memorial of Life and Entomologic Work of J. A. Lintner, p.301-611; Bulletin 25, Report of Botanist, p.617-88. 5 pl.; General Index, p.689-95.

Contents of Geol. rep. 18 in Mus. rep. 52, v.2: Report of Acting State Geologist and Paleontologist, p.5-7; Kümmel, H. B. The Newark or New Red Sandstone Rocks of Rockland County, p.9-50; Prosser, C. S. Sections of the Formations Along the Northern End of the Helderberg Plateau, p.51-72; Cushing, H. P. Geology of Franklin County, p.73-128; Smyth, C. H. jr & Newland, D. H. Progress in Mapping Crystalline Rocks of Western Adirondack Region, p.129-35; Kemp, J. F., Newland, D. H. & Hill, B. F. Geology of Hamilton, Warren and Washington Counties, p.137-62; Index, p.163-69.

53 (for 1899) 1901. v.1, r170+867p. 4pl. (lith.) other pl. (phot.) maps. O. v.2, 234p. 33pl. (lith.) Q.

Contents, v.1: Report of Director, p.r5-170; Report of Geologist, p.r7-154; Additions to Collections, p.r163-70; Bulletin 26, Felt, E. P. Collection, Preservation and Distribution of New York Insects, p.3-34; Bulletin 27, Felt, E. P. Shade Tree Pests in New York State, p.39-60; Bulletin 28, Peck, C. H. Plants of North Elba, p.65-266; Bulletin 29, Miller, G. S. jr. Preliminary List of New York Mammals, p.271-390; Bulletin 30, Orton, Edward. Petroleum and Natural Gas in New York, p.395-526; Bulletin 31, Report of Entomologist, p.531-653; Report of Paleontologist, p.659-816; Report of Botanist, p.821-67. 4pl.; General Index, p.657-61.

v.2: Memoir 3, Clarke, J. M. Oriskany Fauna of Becraft Mountain, p.1-128. 9pl.; Memoir 4, Peck, C. H. Edible Fungi of New York, p.129-234. 24pl.

Contents of Geol. rep. 19 in Mus. rep. 53, v.1: Report of Geologist, p.r7-16; Kemp, J. F. & Hill, B. F. Pre-Cambrian Formations in Parts of Warren, Saratoga, Fulton and Montgomery Counties, p.r17-35; Cushing, H. P. Geology of Rand Hill and Vicinity, Clinton Co., p.r37-82; Smyth, C. H. jr. Geology of the Crystalline Rocks in the Vicinity of the St

Lawrence River, p.r83-104; Bishop, I. P. Oil and Gas in Southwestern New York, p.r105-34; Nevius, J. N. Roofing Slate Quarries of Washington County, p.r135-50; Nevius, J. N. Emery Mines of Westchester County, p.r151-54.

54 (for 1900) 1902. v.1, r261+195+484p. 17pl. (lith.) other pl. (phot.) O. v.2, p.489-1063, 2pl. (lith.) other pl. (phot.) O. v.3, 968p. 37pl. (lith.) other pl. (phot.) O. v.4, 664p. 13pl. (lith.) other pl. (phot.) O.

- Contents, v.1:* Report of the Director and State Geologist, p.r3-261; Tests of Road Metal, p.r14-22; Cushing, H. P. Recent Geologic Work in Franklin and St Lawrence Counties, p.r23-82; Cushing, H. P. Pre-Cambrian Outlier at Little Falls, Herkimer co., p.r83-95; Finlay, G. I. Preliminary Report of Field Work in the Town of Minerva, Essex co., p.r96-102; Fairchild, H. L. Pleistocene Geology of Western New York, Report of Progress for 1900, p.r103-39; Eckel, E. C. The Quarry Industry in Southeastern New York, p.r141-76; Parsons, A. L. Recent Developments in the Gypsum Industry in New York State, p.r177-83; Accessions to Collections, p.r201-7; Stoller, J. H. Two New Land Isopods, p.r208-13; Scott, G. G. Notes on the Marine Food Fishes of Long Island and a Biologic Reconnaissance of Cold Spring Harbor, p.r214-29; Converse, H. M. Iroquois Silver Brooches, p.r231-54; Index, p.r255-61; Report of State Paleontologist 1900, p.3-124; Report of State Botanist 1900, p.129-99. 13pl.; Bulletin 32, Beauchamp, W. M. Aboriginal Occupation of New York, p.3-187; Bulletin 33, Farr, M. S. Check List of New York Birds, p.193-409; Bulletin 34, Cumings, E. R. Lower Silurian System of Eastern Montgomery County, Prosser, C. S. Notes on the Stratigraphy of the Mohawk Valley and Saratoga County, N. Y. p.415-84.
- v.2:* Bulletin 35, Ries, Heinrich. Clays of New York, p.489-944; Bulletin 36, Felt, E. P. 16th Report of State Entomologist, p.949-1063.
- v.3:* Bulletin 37, Felt, E. P. Illustrated Descriptive Catalogue of Injurious and Beneficial Insects of New York State, p.3-52; Bulletin 38, Miller, G. S. jr. Key to the Land Mammals of Northeastern North America, p.59-160; Bulletin 39, Clarke, J. M., Simpson, G. B. & Loomis, F. B. Paleontologic Papers, p.165-231; Bulletin 40, Simpson, G. B. Anatomy and Physiology of Polygyra Albolabris and Limax Maximus, p.237-314; Bulletin 41, Beauchamp, W. M. Wampum and Shell Articles Used by the New York Indians, p.319-480; Bulletin 42, Ruedemann, Rudolf. Hudson River Beds near Albany and their Taxonomic Equivalents, p.485-596; Bulletin 43, Kellogg, J. L. Clam and Scallop Industries of New York State, p.601-31; Bulletin 44, Ries, Heinrich. Lime and Cement Industries of New York, p.639-968.
- v.4:* Bulletin 45, Grabau, A. W. Guide to the Geology and Paleontology of Niagara Falls and Vicinity. p.3-284; Bulletin 46, Felt, E. P. Scale Insects of Importance and List of the Species in New York State, p.289-377; Bulletin 47, Needham, J. G. and Betten, Cornelius. Aquatic Insects in the Adirondacks, p.383-612; Bulletin 48, Woodworth, J. B. Pleistocene Geology of Portions of Nassau County and Borough of Queens, p.617-70; General Index, p.673-79.

Contents of Geol. rep. 20 in Mus. rep. 54, v.1: Report of Geologist, p.r7-22; Tests of Road Metal, p.r14-22; Cushing, H. P. Recent Geologic Work in Franklin and St Lawrence Counties, p.r23-82; Cushing, H. P. Pre-Cambrian Outlier at Little Falls, Herkimer Co., p.r83-95; Finlay, G. I. Preliminary Report of Field Work in the Town of Minerva, Essex Co., p.r96-102; Fairchild, H. L. Pleistocene Geology of Western New York, Report of Progress for 1900, p.r103-39; Eckel, E. C. The Quarry Industry in Southeastern New York, p.r141-76; Parsons, A. L. Recent Developments in the Gypsum Industry in New York State, p.r177-83; Index, p.r185-89.

Geologist's annual reports for 1881-1900. Rep'ts 1, 3-13, 17-date, O; 2, 14-16, Q. 1881-1902.

The annual reports of the early natural history survey, 1837-41 are out of print.

Reports 1-4, 1881-84 were published only in separate form. Of the 5th report 4 pages were reprinted in the 39th museum report, and a supplement to the 6th report was included in the 40th museum report. The 7th and subsequent reports are included in the 41st and following museum reports, except that certain lithographic plates in the 11th report (for 1891) and 13th report (for 1893) are omitted from the 45th and 47th museum reports.

Separate volumes of the geologist's 12th and 20th reports can be supplied for 50 cents; 14th, 17th and 18th for 75 cents each; 15th and 16th for \$1 each; 19th for 40 cents. Others, except as parts of museum reports, are not available.

In 1898 the paleontologic work of the State was made distinct from the geologic and will hereafter be reported separately.

1 (for 1881) 1884. 15p. 11pl. (lith.) O.

Contents: Report of Geologist, p.3-7; Classification of the Lamellibranchiata, p.8-15. 11pl.

2 (for 1882) 1883. 17p. illus. 61pl. (lith.) Q.

Contents: Report of Geologist, p.1-3; Hall, James. Discussion upon Genus Fenestella, p.5-16; 33 plates illustrating corals and Bryozoans of upper and lower Helderberg groups; Brachiopoda, plates and explanations, pl.34-61.

3 (for 1883) 1884. 61p. O.

Contents: Report of Geologist, p.1-3; Hall, James. Bryozoans of the Hamilton Group, p.5-61.

4 (for 1884) 1885. 47p. illus. 2pl. (lith.) maps. O.

Contents: Report of Geologist, p.1-8; Geological Map of the State, p.4-8; Clarke, J. M. Geological Succession in Ontario County, N. Y., p.9-22; Hall, C. E. Laurentian Magnetic Iron Ore Deposits of Northern New York, p.23-34; Hall, James, Mode of Growth and Relations of the Fenestellidae, p.35-45. 2pl.; wood-cuts of palaeozoic pectenoid shells, p.47.

5 (for 1885) 1886. 47p. illus. 28pl. (lith.) maps. O.

Contents: Report of Geologist, p.3-5; Palaeontology of New York, v.5, pt2, Lamellibranchiata, p.5-7; Beecher, C. E. & Hall, C. E. Field Notes on

the Geology of the Mohawk Valley, p.8-10; Oneonta Sandstone in the Vicinity of Oxford, Chenango County, N. Y., p.11; Bishop, I. P. Salt Wells of Western New York, p.12-47; 14 plates to accompany Palaeontology of New York, v.5, pt2; 14 plates to accompany Palaeontology of New York, v.6.

6 (for 1886) 1887. 70p. 8pl. (lith.) maps. O.

Contents: Report of Geologist, p.3-9; Williams, S. G. Lower Helderberg Rocks of Cayuga Lake, p.10-12; Williams, S. G. Tully Limestone, its Distribution and its Known Fossils p.13-29; Clarke, J. M. Annelid Teeth from Lower Portion of Hamilton Group and from Naples Shales of Ontario County, N. Y., p.30-33. 1pl.; Clarke, J. M. Supposed Mastodon Bones Found at Attica, N. Y., p.34-35; Hall, James. Dictyospongiidae in New York, p.36-38; Hall, James. Note on the Discovery of a Skeleton of an Elk in Farmington, Ontario co., p.39; Hall, James. Descriptions of Fenestellidae of the Hamilton Group, p.41-70. 7pl.

7 (for 1887) no separate edition. see Mus. rep. 41 for contents.

8 (for 1888) 1889. 150p. illus. O.

Contents: Report of Geologist, p.5-56; Palaeontology of New York v.7, p. 5-23; List of Type Specimens of Devonian Crustacea described in Palaeontology of New York, v.7 in Possession of Museum, p.24-27; Palaeontology of New York v.8, p.27-42; Clarke, J. M. Genera of the Palaeozoic Brachiopoda, p.43-46; List of Microscopic Sections of Brachiopoda, p.46-47; List of Preparations for v.8, p.47-48; List of Plates of Brachiopoda, p.48-49; Schuchert, Charles. List of the Fossils in the Oriskany Sandstone of Maryland, New York and Ontario, p.50-54; Clarke, J. M. Genus Bronteus in the Chemung Rocks, p.57-59; Clarke, J. M. List of Species Constituting the Known Fauna and Flora of the Marcellus Epoch in New York State, p.60-61; Clarke, J. M. Hercynian Question, p.62-91; Bishop, I. P. Locality of Flint Implements in Wyoming County, N. Y., p.92-94; Catalogue of Specimens Representative of the Taconic System, p.95-98; List of Plates, Drawings, Names of Draughtsmen and Lithographers for Palaeontology of New York, v.5, pt1 and 2, v.7 and 8, p.99-103; Record of Locality Numbers, p.104-50.

9 (for 1889) 1890. 72p. O.

Contents: Report of Geologist, p.7-25; Palaeontology of New York, v.8, p.7-16; Geological Map of the State of New York, p.16-25; Hall, James. Fossil Dictyospongiidae of the Devonian and Carboniferous Formations, p.25-27; Schuchert, Charles. On Syringothyris, Winchell and its American Species, p.28-37; Schuchert, Charles. List of Species of the American Palaeozoic Orthis, Spirifera, Spiriferina and Syringothyris, p.38-55; Hall, James. New Forms of Dictyospongiidae from the Rocks of the Chemung Group, p.56-60; Record of Locality Numbers, p.61-72.

10 (for 1890) 1891. 155p. 7pl. (lith.) O.

Contents: Report of Geologist, p.7-25; Palaeontology of New York v.8, p.7-14; Clarke, J. M. Genera of the Palaeozoic Brachiopoda, p.15-18; Original Drawings for the Palaeontology of New York v.8, p.19; List of Figures for v.8, p.19-21; List of Microscopic Sections of Brachiopoda, p.22-23; Clarke, J. M. Report of Assistant Palaeontologist, p.29-31;

List of Accessions to the Department of Palaeontology, p.32-34; Hall, James. Descriptions of Bryozoa, p.35-57; Clarke, J. M. Genus *Acidaspis*, p.61-71. 3 pl.; Clarke, J. M. *Coronura aspectans*, p.79-83. 1 pl.; Clarke, J. M. *Terataspis grandis*, Hall, p.87-90. 1pl.; Hall, James. Preliminary Notice of *Newberria*, p.91-99. 2 pl.; Merrill, F. J. H. Quaternary Geology of the Hudson River Valley, p.103-9; Ries, Heinrich. Quaternary Deposits of the Hudson River Valley between Croton and Albany, with Notes on Brick Clays, and the Manufacture of Brick, p.110-55.

11 (for 1891) 1892. 300p. illus. 22pl. (lith.) map. O.

Contents: Report of Geologist, p.7-29; Livonia Salt Shaft, p.10-12; Palaeontology of New York, v.8, p.12-13; List of Preparations of Spirals, Loops and Hinge-plates for v.8, pt2, p.14-15; List of Genera of the Palaeozoic Brachiopoda, p.15-21; Additions to the Palaeontological collections, p.22-28; Clarke, J. M. Catalogue of the Collection of Geological and Palaeontological Specimens donated by the Albany Institute, p.33-53; Clarke, J. M. Report of Assistant Palaeontologist, p.54-55; Clarke, J. M. List of the Original and Illustrated Specimens in the Palaeontological Collections, pt1, Crustacea p.57-121; Record of Localities of Extra Limital Geological and Palaeontological Collections, p.122-23; Clarke, J. M. On *Cordania* a Proposed New Genus of Trilobites, p.124-27; Publications of Geologist, p.128-31; Hall, James & Clarke, J. M. Introduction to the Study of the Brachiopoda, p.133-300, 22pl.

12 (for 1892) 1893. 142p. O.

Contents: Report of Geologist, p.7-41; Palaeontology of New York, v.8 pt1, p.14-22; Palaeontology of New York, v.8, pt2, p.23-25; Geological Map of the State, p.25-38; Geological Surveys and Maps of Parts of the State of New York, p.38-39; Clarke, J. M. Report of Assistant Palaeontologist, p.43-49; Additions to the Geological and Palaeontological Collections during 1891-92, p.50-53; Clarke, J. M. List of the Original and Illustrated Specimens in the Palaeontological Collections, pt2, Annelida and Cephalopoda p.55-104; Emerson, B. K. Two Boulders of a very Basic Eruptive Rock from the West Shore of Canandaigua Lake, p.105-9; Prosser, C. S. Devonian Section of Central New York along the Unadilla River; p.110-42.

13 (for 1893) 1894. v.1, 597p. illus. 4pl. (lith.) other pl. (phot.) maps. O. v.2, p.598-943. illus. pl.23-54 (lith.) maps. O.

Contents, v.1: Report of Geologist and Palaeontologist, p.7-8; Hall, James. Livonia Salt Shaft, its History and Geological Relations, p.11-20; Luther, D. D. Geology of the Livonia Salt Shaft, p.21-130; Clarke, J. M. Succession of the Fossil Faunas in the Section of the Livonia Salt Shaft, p.131-58; Clarke, J. M. New or Rare Species of Fossils from the Horizons of the Livonia Salt Shaft, p.159-89. 4pl.; Geological Survey of the State of New York, Reports, p.193-557; Darton, N. H. Relations of the Helderberg Limestones and Associated Formations in Eastern New York, p.197-228; Darton, N. H. Geology of Albany County, p.229-61; Nason, F. L. Economic Geology of Albany County, p.263-87; Darton, N. H. Geology of Ulster County, p.289-372; Nason, F. L. Economic Geology of Ulster County, p.373-406; Darton,

N. H. Geology of the Mohawk Valley in Herkimer, Fulton, Montgomery and Saratoga Counties, p.407-29; Kemp, J. F. Geology of Essex County, p.431-72; Cushing, H. P. Geology of Clinton County, p.473-89; Smyth, C. H. jr. Geology of Four Townships in St Lawrence and Jefferson Counties, N. Y., p.491-515; Randall, F. A. Geology of Cattaraugus and Chautauqua Counties, p.517-27; Clarke, J. M. Field Work in Chenango County, p.529-57; Clarke, J. M. *comp.* List of Publications relating to the Geology and Palaeontology of the State of N. Y. 1876-93, p.559-97;

v.2, *Dep't of palaeontology*: Palaeontology of New York, v.8, pt2, p.603-8; Clarke, J. M. Evolution of the Genera of the Palaeozoic Brachiopoda, p.609-46; Descriptions of New Species figured in v.8, pt2 of Palaeontology of New York, p.647-57; Sherzer, W. H. Platynemic Man in New York, p.659-83; Simpson, G. B. Genera of Fenestellidae, p.685-727; Simpson, G. B. Glossary and Explanations of Specific Names of Bryozoa and Corals, p.729-47; Hall, James & Clarke, J. M. Introduction to the Study of the Brachiopoda, pt2, p.749-943; pl.23-54.

14 (for 1894) 1895. 669p. illus. 44pl. (lith.) other pl. (phot.) maps. Q.

Contents: Staff of geologist, p.7; Report of Geologist and Palaeontologist, p.9-29; Preface to Palaeontology of New York, v.8. p.21-28; Geological Survey of the State of New York, Reports, p.31-125; Darton, N. H. Faulted Region of Herkimer, Fulton, Montgomery and Saratoga Counties, p.31-53; Beecher, C. E. & Hall, C. E. Field Notes on the Geology of the Mohawk Valley, with a map, p.54-56; Lincoln, D. F. Geology of Seneca County, p.57-125; Bernard, Felix. Principles of Palaeontology, ed. by J. M. Clarke, p.127-215; Ruedemann, Rudolf. Development and Mode of Growth of Diplograptus, p.217-49. 5 pl.; Girty, G. H. Revision of the Sponges and Coelenterates of the Lower Helderberg Group of New York, p.259-309. 7 pl.; Hall, James & Clarke, J. M. New Species of Brachiopoda described in Palaeontology of New York, v.8, pt1 and 2, p.323-72. 14pl; Simpson, G. B. Handbook of the Genera of the North American Palaeozoic Bryozoa, p.403-669. 30pl.

15 (for 1895) v.1, 1897, v.2, 1898. v.1, 738p. illus. pl. (phot.) maps. F⁴. v.2, p.739-984. illus. 47pl. (lith.) F⁴.

Contents: Report of Geologist and Palaeontologist, p.7-26; Geological Survey of the State of New York, Reports, p.27-698; Clarke, J. M. Stratigraphic and Faunal Relations of the Oneonta Sandstones and Shales, the Ithaca and the Portage Groups in Central New York, p.27-81; Prosser, C. S. Classification and Distribution of the Hamilton and Chemung Series of Central and Eastern New York, pt1, p.83-222; Luther, D. D. Stratigraphic Position of the Portage Sandstones in the Naples Valley and the Adjoining Region, p.223-36; Luther, D. D. Economic Geology of Onondaga County, p.237-303; Bishop, I. P. Geology of Erie County, p.305-92; Ries, Heinrich. Geology of Orange County, p.393-475; Smyth, C. H. jr. Crystalline Rocks of St Lawrence County, p.477-97; Cushing, H. P. Geology of Clinton County, p.499-573; Kemp, J. F. Geology of Essex County, p.575-614; Prosser, C. S. & Cumings, E. R. Sections and Thickness of

the Lower Silurian Formations on West Canada Creek and in the Mohawk Valley, p.615-59; Smyth, C. H. jr. Talc Industry of St Lawrence County, p.661-71; Ries, Heinrich. Physical Tests of the Devonian Shales, p.673-98; Ruedemann, Rudolf. Discovery of a Sesile Conularia, p.699-728. 4 pl.; Clarke, J. M. Crustaceans from the Chemung Group, p.729-38.

v.2: Hall, James & Clarke, J. M. Memoir on the Palaeozoic Reticulate Sponges Constituting the Family Dictyospongidae, pt1, p.741-984. 47pl.

16 (for 1896) 1899. 8+448p. illus. 32pl. (lith.) other pl. (phot.) maps. F⁴.

Contents: Report of Geologist and Palaeontologist, pref. p.7-8; Geological Survey of the State of New York, Reports, p.1-27, 171-226; Cushing, H. P. Boundary Between the Potsdam and Precambrian Rocks North of the Adirondacks, p.1-27; Clarke, J. M. Naples Fauna in Western N. Y., p.29-161. 9 pl.; Clarke, J. M. Early Stages of Certain Goniatites, p.163-69; Luther, D. D. Brine Springs and Salt Wells of New York and the Geology of the Salt District, p.171-226; Grabau, A. W. Faunas of the Hamilton Group of Eighteen-mile Creek and Vicinity in Western New York, p.227-339; Memoir 2, pt2, Hall, James & Clarke, J. M. Memoir on the Palaeozoic Reticulate Sponges Constituting the Family Dictyospongidae, pt2, p.341-448. pl.48-70.

17 (for 1897) 1899. 564p. illus. pl. (phot.) maps. O.

Contents: Report of Geologist and Palaeontologist, p.5-7; Bishop, I. P. Petroleum and Natural Gas in Western New York, p.9-63; Prosser, C. S. Classification and Distribution of the Hamilton and Chemung Series of Central and Eastern New York, pt2, p.65-315; Eastman, C. R. Upper Devonian Fish Fauna of Delaware County, N. Y., p.317-27; Prosser, C. S. & Rowe, R. B. Stratigraphic Geology of the Eastern Helderbergs, p.329-54; Ries, Heinrich. Limestones of New York, p.355-467; Smyth, C. H. jr. Crystalline Rocks of the Western Adirondack Region, p.469-97; Kemp, J. F. & Newland, D. H. Geology of Washington, Warren and Parts of Essex and Hamilton Counties, p.499-553; Index, p.555-64.

18 (for 1898) 1899. 169p. illus. pl. (phot.) maps. O.

Contents: Report of Acting State Geologist and Paleontologist, p.5-7; Kümmel, H. B. The Newark or New Red Sandstone Rocks of Rockland County, p.9-50; Prosser, C. S. Sections of the Formations along the Northern End of the Helderberg Plateau, p.51-72; Cushing, H. P. Geology of Franklin County, p.73-128; Smyth, C. H. jr & Newland, D. H. Progress in Mapping Crystalline Rocks of Western Adirondack Region, p.129-35; Kemp, J. F., Newland, D. H. & Hill, B. F. Geology of Hamilton, Warren and Washington Counties, p.137-62; Index, p.163-69.

19 (for 1899) 1901. 158p. illus. pl. (phot.) maps. O.

Contents: Report of Geologist, p.7-16; Kemp, J. F. & Hill, B. F. Precambrian Formations in Parts of Warren, Saratoga, Fulton and Montgomery Counties, p.17-35; Cushing, H. P. Geology of Rand Hill and

Vicinity, Clinton Co., p.r37-82; Smyth, C. H. jr. Geology of the Crystalline Rocks in the Vicinity of the St Lawrence River, p.r83-104; Bishop, I. P. Oil and Gas in Southwestern New York, p.r105-34; Nevius, J. N. Roofing Slate Quarries of Washington County, p.r135-50; Nevius, J. N. Emery Mines of Westchester County, p.r151-54; Index, p.r155-58.

20 (for 1900) 1902. 189p. illus. pl. (phot.) maps. O.

Contents: Report of Geologist, p.r7-22; Tests of Road Metal, p.r14-22; Cushing, H. P. Recent Geologic Work in Franklin and St Lawrence Counties, p.r23-82; Cushing, H. P. Pre-Cambrian Outlier at Little Falls, Herkimer Co., p.r83-95; Finlay, G. I. Preliminary Report of Field Work in the Town of Minerva, Essex Co., p.r96-102; Fairchild, H. L. Pleistocene Geology of Western New York, Report of Progress for 1900, p.r103-39; Eckel, E. C. The Quarry Industry in Southeastern New York, p.r141-76; Parsons, A. L. Recent Developments in the Gypsum Industry in New York State, p.r177-83; Index, p.r185-89.

Paleontologist's annual reports for 1899-1901. 1900-1902.

See fourth note under Geologist's annual reports.

Bound also with museum reports of which they form a part. Reports for 1899 and 1900 may be had for 20 cents each. Beginning with 1901 these reports will be issued as bulletins.

(for 1899) 1900. p.659-816. O.

Contents: Report of Paleontologist, p.661-78; Accessions, p.679-83; General Record of Localities of American Paleozoic Fossils belonging to State Museum, p.683-813; Index, p.815-16.

(for 1900) 1901. 124p. 4pl. (lith.). O.

Contents: Report of Paleontologist, p.5-25; Accessions, p.25-31; New Entries of Localities of Fossils, p.31-81; Clarke, J. M. Notes on Paleozoic Crustaceans, p.83-119. 4 pl.; Index, p.121-24.

(for 1901) 1902. p.419-693. 9pl. (lith.) O.

Contents: Report of Paleontologist, p.419-56; George Bancroft Simpson, p.457-60; Accessions, p.461-68; New Entries of Localities of Fossils, p.468-516; Clarke, J. M.; Ruedemann, R. & Luther, D. D. Contact Lines of Upper Siluric Formations on the Brockport and Medina Quadrangles, p.517-23; Clarke, J. M. Paleontologic Results of the Areal Survey of the Olean Quadrangle, p.524-28; van Ingen, Gilbert. Potsdam Sandstone of the Lake Champlain Basin, p.529-45; Ruedemann, Rudolf. Graptolite Facies of the Beekmantown Formation in Rensselaer County, N. Y., p.546-75; Ruedemann, Rudolf. Growth and Development of *Goniograptus thureaui* McCoy, p.576-92; White, David. Fossil Alga from the Chemung of New York, p.593-605; Clarke, J. M. A New Genus of Paleozoic Brachiopods, *Eunoa*, p.606-15; Luther, D. D. Stratigraphic Value of the Portage Sandstones, p.616-31; Ulrich, E. O. and Schuchert, Charles. Paleozoic Seas and Barriers in Eastern North America, p.633-63; Clarke, J. M. Indigene and Alien Faunas of the New York Devonian, p.664-72; Explanation of Plates, p.673-84; Index, p.685-93.

Botanist's annual reports for 1867-1901. 1869-1902.

Bound also with museum reports 21-55 of which they form a part; the first botanist's report appeared in the 21st museum report and is numbered 21. Reports 21-24, 29, 31-41 were not published separately.

Separate reports 25-28, 30, 42-50 and 52 (Museum bulletin 25) are out of print. Report 51 may be had for 40 cents; 53 for 20 cents; 54 for 50 cents; 55 (Museum bulletin 54) for 40 cents. Beginning with 1901, these reports will be issued as bulletins.

Descriptions and illustrations of edible, poisonous and unwholesome fungi of New York have been published in volumes 1 and 3 of the 48th museum report and in volume 1 of the 49th, 51st, 52d, 54th and 55th reports. The descriptions and illustrations of edible and unwholesome species contained in the 49th, 51st and 52d reports have been revised and rearranged, and combined with others more recently prepared and constitute *Museum memoir 4*.

bContents: Order Agaricini, 23, p.66-127; Genus Boletus, 23, p.127-33; Genus Clavaria, 24, p.104-5; Genus Aecidium, 24, p.105-8; Gelatinosporium *gen. nov.*, 25, p.84-106; Synopsis of New York Pucciniae, 25, p.110-23; Report on Fungi, 27, p.74-80; Parasitic Fungi of New York and their Supporting Plants, 29, p.71-82; New York Species of Helvella, 31, p.59-60; New York Species of Phallus, 32, p.37-43; Glomerularia *gen. nov.*, 32, p.43-52; New York Species of Lycoperdon, 32, p.58-72; New York species of Amanita, 33, p.38-49; Report on Fungi, 34, p.24-36; New York Carices, 35, p.147-49; New York Species of Lepiota, 35, p.150-64; New York Species of Psalliota, 36, p.41-49; New York Species of Lactarius, 38, p.111-33; New York Species of Pluteus, 38, p.133-38; New York Species of Pleurotus, Claudopus and Crepidotus, 39, p.58-73; Fungi Destructive to Wood, 41, p.86-94; New York Species of Clitopilus, 42, p.135-42 (*sep. ed.* p.39-46); New York Species of Armillaria, 43, p.86-91 (*sep. ed.* p.40-45); Fungi Destructive to Wood, 43, p.91-93 (*sep. ed.* p.45-47); New York Species of Tricholoma, 44, p.150-76 (*sep. ed.* p.38-64); Fungi of Maryland, 44, p.176-87 (*sep. ed.* p.64-75); New York Species of Omphalia, 45, p.92-102 (*sep. ed.* p.32-42); New York Species of Pluteolus, 46, p.138-41 (*sep. ed.* p.58-61); New York Species of Galera, 46, p.141-49 (*sep. ed.* p.61-69); List of New York Fungi represented at the World's Columbian Exposition at Chicago, 47, p.169-72 (*sep. ed.* p.43-46); Preliminary List of Hymenomycetous Fungi inhabiting our Principal Coniferous Forest Trees, 47, p.172-74 (*sep. ed.* p.46-48); New York Species of Carex, 48, 1:118-202 (*sep. ed.* p.20-104); Edible and Poisonous Fungi of New York, 48, 1:203-316, 44pl. in 48, v.3 (*sep.ed.* p.105-241, 44pl.); New York Species of Collybia, 49, 1:46-69 (*sep. ed.* p.32-55); Edible Fungi, 49, 1:70-78, 5pl. (*sep. ed.* p.56-62); Unwholesome Fungi, 49, 1:79, 1pl. (*sep. ed.* p.65); New York Species of Flammula, 50, 1:133-42; Edible Fungi, 51, 1:300-12, 7pl.; List of Changed Names, 52, 1:628-42; Plants of the Summit of Mt Marcy, 52, 1:657-73; Edible Fungi, 52, 1:673-82, 5pl.; Plants of Bonaparte Swamp, Lewis County, 53, 1:858-61; Edible Fungi, 54, 1:173-86 (1st paging), 8pl.; Edible Fungi, 55, 1:966-82, 5pl.

^aPapers entitled *Facts and Observations touching the Flora of the State of New York* were published in Mus. rep. 18, 19 and 20, the last being by C. H. Peck, the present state botanist.

^b Not including Plants added; Contributors and their contributions; Species not before reported; Remarks and observations, which appear in each report.

Entomologist's annual reports on the injurious and other insects of the State of New York for 1882-1901. 1882-1902.

Reports 3-17 bound also with museum reports 40-46, 48-55 of which they form a part. Beginning with 1898 these reports have been issued as bulletins.

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12-15	48, v. 1	20-25	52, v. 1	35-36	54, v. 2
16-17	50 "	26-31	53 "	37-44	" v. 3
18-19	51 "	32-34	54 "	45-48	" v. 4

The letter and figure in parenthesis after the bulletin number indicate the division and the division and series number. G=geology, EG=economic geology, Z=general zoology, A=archeology, M=mineralogy, P=paleontology, B=botany, E=entomology, Misc=miscellaneous.

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- 3 (EG1) Smock, J. C. Building Stone in the State of New York. 152p. Mar. 1888. *Out of print.*
- 4 (M1) Nason, F. L. Some New York Minerals and their Localities. 20p. 1pl. (phot.) Aug. 1888. 5c.
- 5 (E1) Lintner, J. A. White Grub of the May Beetle. 32p. il. Nov. 1888. 10c.
- 6 (E2) ——— Cut worms. 36p. il. Nov. 1888. 10c.

Volume 2. 4 nos. [\$1.50] in cloth

- 7 (EG2) Smock, J. C. First Report on the Iron Mines and Iron Ore Districts in New York. 6+70p. map. June 1889. *Out of print.*
- 8 (B2) Peck, C. H. Boleti of the United States. 96p. Sep. 1889. [50c]

^a The covers of bulletins bound in paper are counted in giving the number of pages.

- 9 (Z2) Marshall, W. B. Beaks of Unionidae Inhabiting the Vicinity of Albany, N. Y. 24p. 1pl. (lith.) Aug. 1890. 10c.
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- 18 (A2) Beauchamp, W. M. Polished Stone Articles Used by the New York Aborigines. 104p. 35pl. (phot.) Nov. 1897. 25c.
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Supplement to 14th report of the state entomologist.

- 25 (B3) Peck, C. H. Report of the State Botanist 1898. 76p. 5pl. (lith.) Oct. 1899. *Out of print.*

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—Dictyonine Hexactinellid Sponges from the Upper Devonian of New York.

—The Water Biscuit of Squaw Island, Canandaigua Lake, N. Y.

Simpson, G. B. Preliminary Descriptions of New Genera of Paleozoic Rugose Corals.

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- 49 (P5) Ruedemann, Rudolf; Clarke, J. M. & Wood, Elvira. Paleontologic Papers 2. 240p. 13pl. (lith.) Dec. 1901. 40c.
Contents: Ruedemann, Rudolf. Trenton Conglomerate of Rysedorph Hill.
 Clarke, J. M. Limestones of Central and Western New York Interbedded with Bituminous Shales of the Marcellus Stage.
 Wood, Elvira. Marcellus Limestones of Lancaster, Erie Co. N. Y.
 Clarke, J. M. New Agelacrinites.
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 Paulmier, F. C. Lizards, Tortoises and Batrachians of New York.
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- 54 (B5) Peck, C. H. Report of the State Botanist 1901. 58p. 7pl. (lith.) Nov. 1902. 40c.
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- 61 (EG11) Dickinson, H. T. Bluestones and other Sandstones in the Upper Devonian in New York State. 108p. 18pl. 2 maps. Mar. 1903. 35c.
- 62 (Misc1) Merrill, F. J. H. Directory of Natural History Museums in United States and Canada. 236p. Ap. 1903. 30c.
- 63 (P7) Clarke, J. M. Stratigraphy of Canandaigua and Naples Quadrangles; 2 maps. *In press.*
- 64 (E17) Felt, E. P. 18th Report of the State Entomologist 1902. 110p. 6pl. May 1903. 20c.
- 65 (P8) Clarke, J. M. Catalogue of Type Specimens of Paleozoic Fossils in the New York State Museum. 848p. May 1903. \$1.20, cloth.
- 66 (Misc2) Ellis, Mary. Index to Publications of the New York State Natural History Survey and New York State Museum. 1837-1902. 418p. June 1903. 75c, cloth.
- 67 (B6) Peck, C. H. Report of the State Botanist 1902. 196p. 5pl. May 1903. 50c.
- 68 (E18) Needham, J. G. and others. Aquatic Insects in New York State. *In press.*
- 69 (P9) Clarke, J. M. Report of the State Paleontologist 1902. *In press.*
 Felt, E. P. & Joutel, L. H. Monograph of the Genus Saperda. *In press.*
 Kellogg, James L. Feeding Habits and Growth of *Venus mercenaria*. *In press.*
- Museum mémoires. Q. 1889-1902.
- 1 Beecher, C. E. & Clarke, J. M. Development of Some Silurian Brachiopoda. 96p. 8pl. (lith.) Oct. 1889. *Out of print.*

- 2 Hall, James & Clarke, J. M. Palaeozoic Reticulate Sponges, constituting the Family Dictyospongidae. 350p. il. 70pl. (lith.). 1898. \$1, cloth.
- 3 Clarke, J. M. The Oriskany Fauna of Becraft Mountain, Columbia Co. N. Y. 128p. 9pl. (lith.) Oct. 1900. 80c.
- 4 Peck, C. H. New York Edible Fungi, 1895-99. 106p. 25pl. (lith.) Nov. 1900. 75c.

This includes revised descriptions and illustrations of fungi reported in the 49th, 51st and 52d reports of the state botanist.

- 5 Clarke, J. M. & Ruedemann, Rudolf. The Guelph Formation and Fauna of Western New York. *In press.*
- 6 Clarke, J. M. Naples Fauna in Western New York. *In press.*
Felt, E. P. Insects Affecting Park and Woodland Trees. *In press.*

Natural history of New York. 30v. il. pl. (lith.) maps. Q. 1842-94.

The annual reports of the early natural history survey, 1837-41 are out of print. They were originally published as Assembly doc. 1837, no. 161; 1838, no. 200; 1839, no. 275; 1840, no. 50; 1841, no. 150.

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Illustrations of Devonian Fossils. pl. sq. F. 1876.
Published in advance of Palaeontology of New York v.5, pt2-v.7.
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- v. 8 pt 1 Introduction to the Study of the Genera of the Palaeozoic Brachiopoda. 16+367p. 44 pl. 1892. \$2.50.
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Maps. Merrill, F. J. H. Economic and Geologic Map of the State of New York; issued as part of Museum bulletin 15 and the 48th museum report, v. 1. 59x67 cm. 1894. Scale 14 miles to 1 inch. *Out of print.*

New edition in preparation.

——— Geologic Map of New York. 1901. Scale 5 miles to 1 inch. *In atlas form \$3; mounted on rollers \$5. Lower Hudson sheet 60c.*

The lower Hudson sheet, geologically colored, comprises Rockland, Orange, Dutchess, Putnam, Westchester, New York, Richmond, Kings, Queens and Nassau counties, and parts of Sullivan, Ulster and Suffolk counties; also northeastern New Jersey and part of western Connecticut.

The following papers in other New York publications are included in the index:

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Albany Institute. Transactions:

Beck, L. C. Geographical Botany of the United States. 1828. 1:10-21; Geddes, James. Geological Features of the South Side of the Ontario Valley. 1829. 1:55-56; Morse, J. O. Great Greywacke Region of the State of New York. 1829. 1:84-85; Henry, Joseph. Topographical Sketch of the State of New York, designed chiefly to show the general elevations and depressions of its surface. 1829. 1:87-112; Green, Jacob. Cones of North America. 1830. 1:121-25; Eaton, Amos. Coal Formations in the State of New York. 1830. 1:126-30; Green, Jacob. Dolia of the United States. 1830. 1:131-33; Green, Jacob. Notes on the American Shells, figured in the Supplement to the Index Testaceologicus. 1830. 1:134-36; Beck, T. R. Address delivered before the Lyceum of Natural History at its First Anniversary, March 1, 1824. 1830. 1:137-47; Beck, L. C. & Tracy, J. G. Note Respecting the *Ranunculus lacustris*. 1830. 1:148-49; Green, Jacob. Reclamation of Salamanders. 1830. 1:150-51; Clinton, G. W. Graphite of Ticonderoga. 1830. 1:233-35; Beck, T. R. Abstracts of Meteorological Observations made at the City of Albany. 1833-52. 2:1-29; Eights, James. Description of a New Crustaceous Animal found on the Shores of the South Shetland Islands, with Remarks on their Natural

History. 1833-52. 2:53-69; Report of Committee appointed to Continue Observations on Meteorology. 1833-52. 2:97-112, 153-209; Webster, M. H. Table of Mean Temperatures for the Last Ten Years, &c. deduced from the Reports of the Regents of the University. 1833-52. 2:221-23; Eights, James. Description of a New Animal belonging to the Crustacea, discovered in the Antarctic Seas. 1833-52. 2:331-34; Eights, James. Observations on the Geological Features of the Post Tertiary Formation of the City of Albany and its Vicinity. 1833-52. 2:335-53; Hall, James. Description of New Species of Fossils from the Carboniferous Limestones of Indiana and Illinois. 1858-64. 4:1-36; Meek, F. B. Descriptions of New Organic Remains from the Cretaceous Rocks of Vancouver's Island. 1858-64. 4:37-49; Meek, F. B. & Hayden, M. D. Descriptions of New Organic Remains from North-Eastern Kansas, indicating the Existence of Permian Rocks in that Territory. 1858-64. 4:73-88; Hall, James. Observations upon some of the Brachiopoda, with Reference to the Genera *Cryptonella*, *Centronella*, *Meristella*, and Allied Forms. 1858-64. 4:125-48; Murray, David. Petroleum, its History and Properties. 1858-64. 4:149-66; Hall, James. New Species of Fossils from a Locality of the Niagara Group in Indiana, with a List of Identified Species from the Same Place. 1858-64. 4:195-228; Stevens, G. T. Flora of the Adirondacks. 1870. 6:67-82; Lansing, J. V. Frogs and their Contributions to Science. 1870. 6:120-35; Peck, C. H. Fungi. 1870. 6:209-26; Peck, C. H. Report on Botany. 1872. 7:35-43, 186-204; 1876. 8:152-66; Stevens, G. T. Report on Zoology. 1872. 7:132-43; Peck, C. H. Synopsis of New York Uncinulae. 1872. 7:213-17; Callaway, Charles. The Geological Evidence of the Origin of Species by Evolution. 1876. 8:207-14; Lintner, J. A. Otto Meske's Collection of Lepidoptera. 1876. 8:215-20; Peck, C. H. The Black Spruce. 1876. 8:283-301; Colvin, Verplanck. The Winter Fauna of Mount Marcy. 1879. 9:11-26; Hall, James. The Hydraulic Beds and Associated Limestones at the Falls of the Ohio. 1879. 9:169-80; Webster, H. E. Annelida chaetopoda of the Virginiian Coast. 1879. 9:202-69; Peck, C. H. United States Species of Lycoperdon. 1879. 9:285-318; Walcott, C. D. Utica Slate and Related Formations of the Same Geological Horizon. 1883. 10:1-17; Walcott, C. D. Fossils of the Utica Slate. 1883. 10:18-38; Hall, James. Descriptions of New Species of Fossils from the Niagara Formation at Waldron, Ind. 1883. 10:57-76; Hall, James. Bryozoans of the Upper Helderberg and Hamilton Groups. 1883. 10:145-97; Peck, C. H. Fertilization of Flowers. 1887. 11:155-68; Peck, C. H. Edible Wild Fruits of New York. 1893. 12:83-102; Lintner, J. A. Insects of the Past Year and Progress in Insect Studies. 1893. 12:227-40; Peck, C. H. Weeds. 1893. 12:251-65.

Regents reports:

Veeder, M. A. Uses and Relations of the Study of Botany, 91 (for 1877) 1878, p.439-42; Williams, H. S. Palaeontological Evidences as Bearing upon the Theory of Evolution, 95 (for 1881) 1882, p. 319-27; Lintner, J. A. Present Status of Entomological Science in the United States, 100 (for 1886) 1887, p.122-34; Hall, James. Educational Uses of Museums of Natural History, 100 (for 1886) 1887, p.208-13; Winchell, Alexander. Geology and Culture, 102 (for 1888) 1889, p.69-85; Tarr, R. S. Laboratory Methods of Instruction in Geology and Physical Geography, 108 (for 1894) 1895, 2:992-1011; Clarke, J. M. Relation of New York State Paleontology to the Schools and Colleges, 113 (for 1899) 1901, p.359-64.

Forest, Fish and Game Commission. Reports:

Felt, E. P. Insects Injurious to Maple Trees, 4 (for 1898) 1899 [issued Ap. 23, 1900], p.367-95; Felt, E. P. Insects Injurious to Elm Trees, 5 (for 1899) 1900 [issued Jan. 16, 1902], p.351-79; Felt, E. P. Aquatic Insects of the Saranac Region, 6 (for 1900) 1901 [issued Aug. 1902], p.499-531; Felt E. P. Insects Affecting Forest Trees, 7 (for 1901) *In press*.

Public Service of the State of New York:

Hall, James. Geological Survey, 2:367-80; Hall, James. State Museum of Natural History, 3:482-88.

AUTHOR INDEX

Names of donors are not included, but collections known under names of persons appear in the subject index. Unless otherwise specified, pl. refers to lithographic plates only. For other explanatory matter see p.240.

Agassiz, Alexander. On Reorganization of State Cabinet. Mus. rep. 19 (for 1865) 1866. p.20-22.

Aldrich, Truman H. Partial List of Shells Found near Troy, N. Y. Mus. rep. 22 (for 1868) 1869. p.17-24.

Baird, Spencer F. On the Serpents of New-York, with notice of a species not hitherto included in the fauna of the State. Mus. rep. 7 (for 1853) 1854. p.95-124. 2pl.

Banning, Mary E. Fungi of Maryland. Bot. rep. 44 (for 1890) 1891. p.64-75. *Same*, Mus. rep. 44 (for 1890) 1892. p.176-87.

Bean, Tarleton H. Report on the Fishes of Long Island Collected in the Summer of 1898. Mus. rep. 52 (for 1898) 1900. 1:r92-111.

Also published separately.

— Catalogue of the Fishes of New York. Mus. bul. 60. *In press*.

— Report on the Fishes of Great South Bay, Long Island, Collected in the Summer of 1901. Mus. rep. 55 (for 1901). *In press*.

Beauchamp, William M. Aboriginal Chipped Stone Implements of New York. Mus. bul. 16. 1897. 84p. 23pl. (phot.) *Same*, Mus. rep. 50 (for 1896) 1898. 1:3-84 (2d paging). 23pl. (phot.)

— Polished Stone Articles Used by the New York Aborigines. Mus. bul. 18. 1897. 192p. 35pl. (phot.) *Same*, Mus. rep. 51 (for 1897) 1899. 1:3-102. 35pl. (phot.)

— Earthenware of the New York Aborigines. Mus. bul. 22. 1898. p.71-146, 33pl. (phot.) *Same*, Mus. rep. 52 (for 1898) 1900. 1:71-146. 33pl. (phot.)

— Aboriginal Occupation of New York. Mus. bul. 32. 1900. 187p. 16pl. (phot.) maps. *Same*, Mus. rep. 54 (for 1900) 1902. 1:3-187. 16pl. (phot.) maps.

Contains a bibliography.

Map of the territorial divisions of the aborigines of New York about A. D. 1600, 44 x 35cm.

Map of the early and recent sites of the aborigines of New York, 93.5 x 69.5cm.

— Wampum and Shell Articles Used by the New York Indians. Mus. bul. 41. 1901. p.319-480. 28pl. (phot.) *Same*, Mus. rep. 54 (for 1900) 1902. 3:319-480. 28pl. (phot.)

List of authorities on wampum, p.321-26.

— Horn and Bone Implements of New York Indians. Mus. bul. 50. 1902. p.1-112. 43pl. (phot.)

— Metallic Implements of New York Indians. Mus. bul. 55. 1902. p.1-94. 38pl. (phot.)

Beck, Lewis C. Geographical Botany of the United States. Alb. Inst. Trans. 1828. 1:10-21.

Read before the Albany Institute, Mar. 26, 1828.

— & Tracy, J. G. Note Respecting the *Ranunculus lacustris*. Alb. Inst. Trans. 1830. 1:148-49.

Read before the Albany Institute, June 7, 1830.

— Report on Mineralogical and Chemical Department of Survey. Assembly doc. 1837, no.161, p.15-60 (ed.2, p.17-62); 1838, no.200, p.7-73; 1839, no.275, p.9-56; 1840, no.50, p.37-111; 1841, no.150, p.3-23.

— Mineralogy of New York; comprising detailed descriptions of the minerals hitherto found in the State of New York, and notices of their uses in the arts and agriculture. 1842. 536p. il. pl. sq. Q.

Contents: pt1 Economical Mineralogy.

pt2 Descriptive Mineralogy.

8 plates additional to those printed as part of the text.

— Catalogue of Specimens in the Mineralogical Department of the Geological Survey. Mus. rep. 1 (for 1847) 1848. p.21-33.

- Report on the Mineralogy of New York; comprising notices of the additions since 1842. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.109-53.
- Beck, T. Romeyn.** Address delivered before the Lyceum of Natural History, at its First Anniversary, March 1, 1824. Alb. Inst. Trans. 1830. 1:137-47.
- Abstracts of Meteorological Observations made at the City of Albany. Alb. Inst. Trans. 1833-52. 2:1-29.
Read before the Albany Institute, Feb. 7, 1833.
- Beecher, Charles E.** Some Abnormal and Pathologic Forms of Fresh-water Shells from the Vicinity of Albany N. Y. Mus. rep. 36 (for 1882) 1883. p.51-55. 2pl.
- List of Species of Fossils from an Exposure of the Utica Slate and Associated Rocks, in the Limits of Albany, N. Y. Mus. rep. 36 (for 1882) 1883. p.78.
- & **Hall, C. E.** Field Notes on the Geology of the Mohawk Valley, with a map. Geol. rep. 5 (for 1885) 1886. p.8-10. map. *Same*, Geol. rep. 14 (for 1894) 1895. p.54-56.
Map showing results of field work in Mohawk valley, 25 x 20.5cm.
- **Hall, C. E. & Hall, J. W.** Note on the Oneonta Sandstone in the Vicinity of Oxford, Chenango co., N. Y. Geol. rep. 5 (for 1885) 1886. p.11.
- A Spiral Bivalve Shell from the Waverly Group of Pennsylvania. Mus. rep. 39 (for 1885) 1886. p.161-63. pl.12.
- Cephalopoda. Descriptions of Species. Pal. N. Y. v.7, supplement. 1888. p.25-40. pl.117-29.
- Statement on the Condition of the Work on the Brachiopoda, Palaeontology of New York, v. 8. Mus. rep. 41 (for 1887) 1888. p.383-84.
- Synoptical Table of the Genera and Species Described in v. 6 of the Palaeontology of New York. Mus. rep. 41 (for 1887) 1888. p.363-75.
- & **Clarke, J. M.** Development of Some Silurian Brachiopoda. Mus. mem. 1. 1889. 95p. Spl.
- Benedict, Farrand N.** Barometrical Measurements in Essex County. Geol. N. Y. pt.2. 1842. p.195-212.
- Bernard, Felix.** Principles of Palaeontology; ed. by J. M. Clarke. Geol. rep. 14 (for 1894) 1895. p.13-15, 127-215. *Same*, Mus. rep. 48 (for 1894) 1895. 2:13-15, 127-215.
Also published separately.
Extracted from Bernard's *Éléments de Paléontologie*. Paris, 1895.
- Betten, Cornelius.** Order Trichoptera. Mus. bul. 47. 1901. p.561-73. *Same*, Mus. rep. 54 (for 1900) 1902. 4:561-73.
- Bishop, Irving P.** Salt Wells of Western New York. Geol. rep. 5 (for 1885) 1886. p.12-47.
- On a Locality of Flint Implements in Wyoming County, N. Y. Geol. rep. 8 (for 1888) 1889. p.92-94. 1pl. in Geol. rep. 9. *Same*, Mus. rep. 42 (for 1888) 1889. p.438-40. 1pl. in Mus. rep. 43.
- Report on the Development of the Salt Industry of Central New York for the Year 1891. Mus. rep. 45 (for 1891) 1892. p.53-61.
- Structural and Economic Geology of Erie County. Geol. rep. 15 (for 1895) 1897. p.17-18, 305-92. pl. (phot.) maps. *Same*, Mus. rep. 49 (for 1895) 1898. 2:17-18, 305-92. pl. (phot.) maps.
Also published separately.
Economic and geologic map of Erie county (uncolored) 33 x 21.5cm.
Maps showing Buffalo gas field.
- Report on Petroleum and Natural Gas in Western New York. Geol. rep. 17 (for 1897) 1899. p.9-63. map. *Same*, Mus. rep. 51 (for 1897) 1899. 2:9-63. map.
Also published separately.
Map of the Cattaraugus oil and gas district, 34.5 x 24cm.
- Oil and Gas in Southwestern New York. Geol. rep. 19 (for 1899) 1901. p.105-34. map. *Same*, Mus. rep. 53 (for 1899) 1901. 1:105-34.
Map of a portion of Allegany county, N. Y. showing the outlines of the proved oil and gas territory. Aug. 1, 1899, by John W. Greenwood, 25.5 x 17cm.

- Boyd, George W.** Orleans County. Geol. rep. 4th dist. (for 1837) 1838. p.347-59.
- Wayne County. Geol. rep. 4th dist. (for 1837) 1838. p.312-26.
- Brinckerhoff, John N.** Annual Meteorological Abstracts for 1863 and 1864, Union Hall Academy, Jamaica, L. I. Mus. rep. 18 (for 1864) 1865. p.212-13.
- Bruyas, Rev. Jacques.** Radical Words of the Mohawk Language, with their Derivatives. Mus. rep. 16 (for 1862) 1863. 123p.
Also published in Library of American Linguistics, ed. by J. G. Shea. 1860-64. v.10.
- Butts, Charles, Glenn, L. C. &.** Stratigraphy and Paleontology of the Olean Quadrangle. Pal. rep. (for 1902). *In press*.
- Callaway, Charles.** The Geological Evidence of the Origin of Species by Evolution. Alb. Inst. Trans. 1876. 8:207-14.
Read before the Albany Institute, Dec. 16, 1873.
- Carpenter, Philip P.** Catalogue of the Reigen Collection of Mazatlan Mollusca. Mus. rep. 13 (for 1859) 1860. p.21-36.
- Carr, Ezra S.** Economical Geology. Geol. rep. 3d dist. (for 1839) 1840. p.385-88.
- Cheney, T. Apoleon.** Illustrations of Ancient Monuments in Western New York. Mus. rep. 13 (for 1859) 1860. p.37-52. 24pl. map. 41x41cm.
- Clarke, John Mason.** Brief Outline of the Geological Succession in Ontario Co., N. Y., to accompany a map. Geol. rep. 4 (for 1884) 1885. p.9-22. map 36x33.5cm.
- Annelid Teeth from the Lower Portion of the Hamilton Group, and from the Naples Shales of Ontario County, N. Y. Geol. rep. 6 (for 1886) 1887. p.30-32. 1pl.
- Preliminary Report on Mastodon Bones at Attica, N. Y. Geol. rep. 6 (for 1886) 1887. p.34-35.
- Report on the Bones of Mastodon or Elephas Found Associated with Charcoal and Pottery at Attica, N. Y. Mus. rep. 41 (for 1887) 1888. p.388-90.
Also published separately, 7p.
Ground plan of sink holes in which were found mastodon bones.
- **Hall, James &.** Trilobites and Other Crustacea of the Oriskany, Upper Helderberg, Hamilton, Portage, Chemung and Catskill Groups. Pal. N. Y. 1888. v.7. 236p. 46pl.
- **Beecher, C. E. &.** Development of Some Silurian Brachiopoda. Mus. mem. 1. 1889. 95p. 8pl.
- The genus *Bronteus* in the Chemung Rocks of New York. Geol. rep. 8 (for 1888) 1889. p.57-59. *Same*, Mus. rep. 42 (for 1888) 1889. p.403-5.
Also published separately, 6p.
- The Hercynian Question; a Brief Review of its Development and Present Status, with a Few Remarks upon its Relation to the Current Classification of American Palaeozoic Faunas. Geol. rep. 8 (for 1888) 1889. p.62-91. *Same*, Mus. rep. 42 (for 1888) 1889. p.408-37.
Also published separately, 32p.
- List of the Species Constituting the Known Fauna and Flora of the Marcellus Epoch in the State of New York. Geol. rep. 8 (for 1888) 1889. p.60-61. *Same*, Mus. rep. 42 (for 1888) 1889. p.406-7.
Also published separately, 4p.
- List of the Type Specimens of Devonian Crustacea Described in Palaeontology of New York, v.7, in the New York State Museum. Geol. rep. 8 (for 1888) 1889. p.24-27. *Same*, Mus. rep. 42 (for 1888) 1889. p.370-73.
- Genera of the Palaeozoic Brachiopoda. Geol. rep. 8 (for 1888) 1889. p.43-46. *Same*, Mus. rep. 42 (for 1888) 1889. p.389-93.
- *revised*. Geol. rep. 10 (for 1890) 1891. p.15-18. *Same*, Mus. rep. 44 (for 1890) 1892. p.45-48.

- Reports as Assistant Paleontologist. Geol. rep. 10-12 (for 1890-92) 1891-93. Mus. rep. 44-47 (for 1890-93) 1892-94.
For page references, see List of publications, p.258-59.
- Notes on the Genus *Acidaspis*. Geol. rep. 10 (for 1890) 1891. p.61-71. pl.1-3. *Same*, Mus. rep. 44 (for 1890) 1892. p.91-101. pl.1-3.
Also published separately, 13p. 3pl.
- Note on *Coronura aspectans*, Conrad (sp.); the *Asaphus diurus*, Green. Geol. rep. 10 (for 1890) 1891. p.79-83. pl.4. *Same*, Mus. rep. 44 (for 1890) 1892. p.105-9. pl.4.
Also published separately, 7p.
- Observations on the *Terataspis grandis*, Hall, the Largest Known Trilobite. Geol. rep. 10 (for 1890) 1891. p.87-90. pl.5. *Same*, Mus. rep. 44 (for 1890) 1892. p.111-14. pl.5.
Also published separately, 6p.
- Catalogue of the Collection of Geological and Palaeontological Specimens Donated by the Albany Institute to the State Museum. Geol. rep. 11 (for 1891) 1892. p.31-53. *Same*, Mus. rep. 45 (for 1891) 1892. p.347-69.
- List of the Original and Illustrated Specimens in the Palaeontological Collections. Pt1, Crustacea. Geol. rep. 11 (for 1891) 1892. p.57-121. *Same*, Mus. rep. 45 (for 1891) 1892. p.373-437.
- On *Cordania*, a Proposed New Genus of Trilobites. Geol. rep. 11 (for 1891) 1892. p.124-27. *Same*, Mus. rep. 45 (for 1891) 1892. p.440-43.
Also published separately.
- **Hall, James &** Introduction to the Study of the Brachiopoda, intended as a hand book for the use of students. Geol. rep. 11 (for 1891) 1892. p.133-300. illus. 22pl. map. Pt2, Geol. rep. 13 (for 1893) 1894. p.749-943, illus. pl.23-54. *Same*, Mus. rep. 45 (for 1891) 1892. p.449-616. map. *no plates*. Pt2, Mus. rep. 47 (for 1893) 1894. p.943-1137. illus. *no plates*.
Also published separately.
Chart of the world showing distribution of recent Brachiopoda, 43 x 28.5cm.
- Introduction to the Study of the Genera of the Palaeozoic Brachiopoda. Pal. N. Y. 1892. v.8, pt1, 367p. 44pl.; 1894. v.8, pt2, 394p. 84pl.
- List of the Original and Illustrated Specimens in the Palaeontological Collections. Pt2, Annelida and Cephalopoda. Geol. rep. 12 (for 1892) 1893. p.55-104. *Same*, Mus. rep. 46 (for 1892) 1893. p.201-50.
- Succession of the Fossil Faunas in the Section of the Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p.131-58. *Same*, Mus. rep. 47 (for 1893) 1894. p.325-52.
- New or Rare Species of Fossils from the Horizons of the Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p.159-89. 4pl. *Same*, Mus. rep. 47 (for 1893) 1894. p.353-83. *no plates*.
- Report on Field-work in Chenango County. Geol. rep. 13 (for 1893) 1894. p.529-57. illus. *Same*, Mus. rep. 47 (for 1893) 1894. p.723-51. illus.
Also published separately.
- List of Publications Relating to the Geology and Palaeontology of the State of New York, 1876-93. Geol. rep. 13 (for 1893) 1894. p.559-97. *Same*, Mus. rep. 47 (for 1893) 1894. p.753-91.
Also published separately.
- Evolution of the Genera of the Palaeozoic Brachiopoda. Geol. rep. 13 (for 1893) 1894. p.609-46. *Same*, Mus. rep. 47 (for 1893) 1894. p.803-40.
Extract from *Palaeontology of New York*, v.8, pt2.
- *ed.* **Bernard, Felix**. Principles of Palaeontology. Geol. rep. 14 (for 1894) 1895. p.13-15, 127-215. *Same*, Mus. rep. 48 (for 1894) 1895. 2:13-15, 127-215.
Also published separately.
- **Hall, James &** New Species of Brachiopoda Described in Palaeontology of New York, v.8, pt1 and 2. Geol. rep. 14 (for 1894) 1895. p.16-18, 323-72. 14pl. *Same*, Mus. rep. 48 (for 1894) 1895. 2:16-18, 323-72. 14pl.
Also published separately.

- Stratigraphic and Faunal Relations of the Oneonta Sandstones and Shales, the Ithaca and the Portage Groups in Central New York. *Geol. rep.* 15 (for 1895) 1897. p.11-12, 27-81. pl. (phot.) 2 maps. *Same*, *Mus. rep.* 49 (for 1895) 1898. 2:11-12, 27-81. pl. (phot.) 2 maps.
Also published separately.
Geologic map of a part of Chenango and Cortland counties, 25 x 23.5cm.
Geologic map showing distribution of Portage group in Seneca, Schuyler, Yates and parts of Tompkins and Ontario counties, 26 x 26.5cm.
- Notes on Some Crustaceans from the Chemung Group of New York. *Geol. rep.* 15 (for 1895) 1897. p.729-38. *Same*, *Mus. rep.* 49 (for 1895) 1898. 2:729-38.
Also published separately.
- **Hall, James &**. Memoir on the Palaeozoic Reticulate Sponges Constituting the Family Dictyospongidae. *Mus. mem.* 2. 1898. 350p. illus. 70pl. *Same*, Pt1, *Geol. rep.* 15 (for 1895) 1898. 2:741-984. illus. 47pl. Pt2, *Geol. rep.* 16 (for 1896) 1899. p.341-448. illus. pl.48-70. *Same*, Pt1, *Mus. rep.* 49 (for 1895) 1898. 3:741-984. illus. 47pl. Pt2, *Mus. rep.* 50 (for 1896) 1899. 2:341-448. illus. pl.48-70.
Contains a bibliography.
- The Naples Fauna (Fauna with *Manticoceras intumescens*) in Western New York. *Geol. rep.* 16 (for 1896) 1899. p.29-161. illus. 9pl. *Same*, *Mus. rep.* 50 (for 1896) 1899. 2:29-161. illus. 9pl.
Also published separately.
- Notes on the Early Stages of Certain Goniatites. *Geol. rep.* 16 (for 1896) 1899. p. 163-69. illus. *Same*, *Mus. rep.* 50 (for 1896) 1899. 2:163-69. illus.
Also published separately.
- Paleontology. University handbook 13. 1899. 8p.
Brief outline of State Museum work in paleontology.
- Guide to Excursions in the Fossiliferous Rocks of New York State. University handbook 15. 1899. 120p.
- Report as Acting State Geologist and Paleontologist. *Geol. rep.* 18 (for 1898) 1899. p.5-7.
- Reports as Paleontologist. *Pal. rep.* (for 1899-1901) 1900-1902. *Same*, *Mus. rep.* 53-54 (for 1899-1900) 1901-1902.
For page references and contents, see List of publications, p.262.
- Oriskany Fauna of Becraft Mountain, Columbia County, N. Y. *Mus. mem.* 3. 1900. 128p. 9pl. *Same*, *Mus. rep.* 53 (for 1899) 1901. v.2. 128p. 9pl.
Includes table of New York series, published by Clarke and Schuchert, in *Science*, Dec. 8, 1899.
- A Remarkable Occurrence of *Orthoceras* in the Oneonta Beds of the Chenango Valley, N. Y. *Mus. bul.* 39. 1900. p.167-71. *Same*, *Mus. rep.* 54 (for 1900) 1902. 3:167-71.
- *Paropsonema cryptophya*; a Peculiar Echinoderm from the *Intumescens*-zone (Portage beds) of Western New York. *Mus. bul.* 39. 1900. p.172-78. pl.5-9. *Same*, *Mus. rep.* 54 (for 1900) 1902. 3:172-78, pl.5-9.
- Dictyonine Hexactinellid Sponges from the Upper Devonian of New York. *Mus. bul.* 39. 1900. p.187-90, pl.10-11. *Same*, *Mus. rep.* 54 (for 1900) 1902. 3:187-90. pl.10-11.
- The Water Biscuit of Squaw Island, Canandaigua Lake, N. Y. *Mus. bul.* 39. 1900. p.195-98. *Same*, *Mus. rep.* 54 (for 1900) 1902. 3:195-98.
- Notes on Paleozoic Crustaceans. *Pal. rep.* (for 1900) 1901. p.83-119. 4pl. *Same*, *Mus. rep.* 54 (for 1900) 1902. 1:83-119. 4pl. (apx. 1).
Contents: Genus *Pseudoniscus*.
Phyllocarida from the Black Shale Beds at Base of Salina Beds in Western New York.
Some Devonian *Phyllocarida* from New York.
Phyllopod Crustacean in the Oneonta-Catskill Sediments in Eastern New York.
Estheria ortoni, sp. nov.
- Limestones of Central and Western New York Interbedded with Bituminous Shales of the Marcellus Stage, with notes on their faunas. *Mus. bul.* 49. 1901. p.115-38. pl.8-9.
- New *Agelacrinites*. *Mus. bul.* 49. 1901. p.182-98. pl.10.

- Value of Amnigenia as an Indicator of Freshwater Deposits During the Devonian of New York, Ireland and the Rhineland. *Mus. bul.* 49. 1901. p.199-203. pl.11.
- Relation of New York State Paleontology to the Schools and Colleges. Regents rep. 113 (for 1899) 1901. p.359-64.
Read before the University Convocation, June 28, 1899.
- **Ruedemann, R. & Luther, D. D.** Contact Lines of Upper Silurian Formations on the Brockport and Medina Quadrangles. *Mus. bul.* 52. 1902. p.517-23.
- Preliminary Statement of the Paleontologic Results of the Areal Survey of the Olean Quadrangle. *Mus. bul.* 52. 1902. p.524-28.
- A New Genus of Paleozoic Brachiopods, *Eunoa*, with Considerations on *Discinocaris*, *Spathiocaris* and *Cardiocaris*. *Mus. bul.* 52. 1902. p.606-15.
- Indigene and Alien Faunas of the New York Devonian. *Mus. bul.* 52. 1902. p.664-72.
- Catalogue of Type Specimens of Paleozoic Fossils in the New York State Museum. *Mus. bul.* 65. *In press.*
- & **Ruedemann, R.** The Guelph Formation and Fauna in Western New York. *Mus. mem.* 5. *In press.*
- Naples Fauna in Western New York. *Mus. mem.* 6. *In press.*
- Stratigraphy of the Canandaigua and Naples Quadrangles. *Mus. bul.* 63. 2 maps. *In press.*
- Mastodons of New York; a List of Discoveries of their Remains 1705-1902. *Pal. rep.* (for 1902). *In press.*
- Clarke, William C.** Gypsum Industry in New York State. *Mus. bul.* 11. 1893. p. 70-84.
- Clinton, George W.** Graphite of Ticonderoga. *Alb. Inst. Trans.* 1830. 1:233-35.
Read before the Albany Institute, Feb. 14, 1827.
- Preliminary List of the Plants of Buffalo and its Vicinity. *Mus. rep.* 17 (for 1863) 1864. p.24-35.
- Facts and Observations Touching the Flora of the State of New York. *Mus. rep.* 18 (for 1864) 1865. p.197-205; 19 (for 1865) 1866. p.72-80.
- Colvin, Verplanck.** Ascent of Mt Seward and its Barometrical Measurement. *Mus. rep.* 24 (for 1870) 1872. p.171-80. 1pl.
- The Winter Fauna of Mount Marcy. *Alb. Inst. Trans.* 1879. 9:11-26.
Read before the Albany Institute, Jan. 4, 1876.
- Conrad, Timothy A.** Annual Report on the Geological Survey of the Third District. *Assembly doc.* 1837, no.161, p.155-86 (ed.2, p.157-88).
- Reports on the Palaeontological Department of the Survey. *Assembly doc.* 1838, no.200, p.107-19; 1839, no.275, p.57-66; 1840, no.50, p.199-207; 1841, no.150, p.25-57.
- Converse, Harriet Maxwell.** Iroquois Silver Brooches. *Mus. rep.* 54 (for 1900) 1902. 1:r231-54.
Also published separately.
- Cook, George H.** Communication on the Nature of the Specimens of Salt and Salt Water presented by him, with an analysis of most of the same. *Mus. rep.* 7 (for 1853) 1854. p.79-93.
- Cummings, Edgar R., Prosser, C. S. &** Sections and Thickness of the Lower Silurian Formations on West Canada Creek and in the Mohawk valley. *Geol. rep.* 15 (for 1895) 1897. p.23-24, 615-59. pl. (phot.) *Same*, *Mus. rep.* 49 (for 1895) 1898. 2:23-24, 615-59. pl. (phot.)
- Lower Silurian System of Eastern Montgomery County, New York. *Mus. bul.* 34. 1900. p.415-68, 4pl. (phot.) map. *Same*, *Mus. rep.* 54 (for 1900) 1902. 1:415-68. 4pl. (phot.) map.
Geologic map of Amsterdam quadrangle, 44 x 32.5cm.

- Cushing, Henry P.** Preliminary Report on the Geology of Clinton County. Geol. rep. 13 (for 1893) 1894. p.473-89. maps (uncolored). *Same*, Mus. rep. 47 (for 1893) 1894. p.667-83. maps (uncolored). Also published separately.
- Report on the Geology of Clinton County. Geol. rep. 15 (for 1895) 1897. p.21-22, 499-573. pl. (phot.) maps (uncolored). *Same*, Mus. rep. 49 (for 1895) 1898. 2:21-22, 499-573. pl. (phot.) maps (uncolored). Also published separately.
- Map of Clinton county showing the boundary between the Cambrian and pre-Cambrian formations (uncolored) 16.5 x 19.5cm.
- Report on the Boundary between the Potsdam and Pre-Cambrian Rocks North of the Adirondacks. Geol. rep. 16 (for 1896) 1899. p.1-27. map (uncolored) 18x31cm. *Same*, Mus. rep. 50 (for 1896) 1899. 2:1-27. map (uncolored) 18x31cm. Also published separately.
- Preliminary Report on the Geology of Franklin County. Geol. rep. 18 (for 1898) 1899. p.73-128. pl. (phot.) map. *Same*, Mus. rep. 52 (for 1898) 1900. 2:73-128. pl. (phot.) map. Also published separately.
- Geologic map of Franklin county, 29x39cm.
- Geology of Rand Hill and Vicinity, Clinton County. Geol. rep. 19 (for 1899) 1901. p.r37-82. 2 maps. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r37-82. 2 maps. Geologic maps of parts of Clinton county 33x22, 10.5x5cm.
- Recent Geologic Work in Franklin and St Lawrence Counties, and Precambrian Outlier at Littlefalls. Geol. rep. 20 (for 1900) 1902. p.r23-95. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r23-95. Also published separately.
- Geologic map of the vicinity of Saranac lakes, 13.5 x 16cm.
- Petrography and Age of the Northumberland Rock. Geol. rep. 21 (for 1901). *In press*.
- Geology of the Vicinity of Littlefalls, Herkimer Co. Mus. bul. *In press*.
- Dana, James D.** On Reorganization of State Cabinet. Mus. rep. 19 (for 1865) 1866. p.10-11.
- Danker, Henry A.** List of the Birds of New York noticed in Maine June 1862. Mus. rep. 16 (for 1862) 1863. p.15-16.
- Darton, Nelson Horatio.** Report on the Relations of the Helderberg Limestones and Associated Formations in Eastern New York. Geol. rep. 13 (for 1893) 1894. p.197-228. pl. (phot.) *Same*, Mus. rep. 47 (for 1893) 1894. p.391-422. pl. (phot.) Also published separately.
- Preliminary Report on the Geology of Albany County. Geol. rep. 13 (for 1893) 1894. p.229-61. pl. (phot.) map, in Geol. rep. 15, v.1. *Same*, Mus. rep. 47 (for 1893) 1894. p.423-55. pl. (phot.) map, in Mus. rep. 49, v.2. Also published separately.
- Preliminary geologic map of Albany county, 78x74.5cm.
- Preliminary Report on the Geology of Ulster County. Geol. rep. 13 (for 1893) 1894. p.289-372. pl. (phot.) maps (uncolored). *Same*, Mus. rep. 47 (for 1893) 1894. p.483-566. pl. (phot.) maps (uncolored). Also published separately.
- Geology of the Mohawk Valley in Herkimer, Fulton, Montgomery and Saratoga Counties. Geol. rep. 13 (for 1893) 1894. p.407-29. pl. (phot.) *Same*, Mus. rep. 47 (for 1893) 1894. p.601-23. pl. (phot.) Also published separately.
- Preliminary Description of the Faulted Region of Herkimer, Fulton, Montgomery and Saratoga Counties. Geol. rep. 14 (for 1894) 1895. p.11-12, 31-53. pl. (phot.) map. *Same*, Mus. rep. 48 (for 1894) 1895. 2:11-12, 31-53. pl. (phot.) map. Also published separately.
- Preliminary geologic map of portions of Herkimer, Fulton, Montgomery, Saratoga and adjacent counties (uncolored) 28.5x16.5cm.

- Davies, Charles.** Remarks at the Inauguration of the State Geological Hall. Mus. rep. 10 (for 1856) 1857. p.27-28.
- Davis, K. C.** The Sialididae of North and South America. Mus. bul. 68. *In press.*
- De Kay, James E.** Report on Zoological Department of Survey. Assembly doc. 1837, no.161. p.11-13 (ed.2, p.13-15); 1840, no.50, p.7-36.
- Zoology of New York; or, the New York Fauna. 1842-44. 5v. il. pl. maps. sq. Q.
 Historical introduction to the series by Gov. W. H. Seward. 178p.
Contents: v1 pt1 Mammalia. 13+146p. 33pl. 1842.
 300 copies with hand-colored plates.
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 Hand-colored plates: pt5-6 bound together.
- Catalogue of the Fishes Inhabiting the State of New York as Classified and Described in pt4 of the New York Fauna, with a list of the fishes inhabiting the State discovered since the publication of the zoology. Mus. rep. 8 (for 1854) 1855. p.49-69.
- Delafield, John.** A General View and Agricultural Survey of the County of Seneca. Ag. Soc. Trans. 10 (for 1850) 1851. p.356-616. illus. 1pl. map. Topographic map of Seneca county, N. Y. by William T. Gibson, 39.5x25.5cm.
- Denniston, Goldsmith.** Survey of the County of Steuben. Ag. Soc. Trans. 21 (for 1861) 1862. p.547-661. map.
 Map of Steuben county (uncolored) 43.5x42.5cm.
- Agricultural Survey of the County of Orange. Ag. Soc. Trans. 22 (for 1862) 1863. p.135-235. illus. maps.
 Map of Orange county (uncolored) 59x47.5cm.
 Map of patents in Orange county granted under the colonial government (uncolored) 43x32cm.
- De Tarr, D. N.** List of the Rhizopoda Found in the Vicinity of Albany, N. Y. Mus. rep. 35 (for 1881) 1884. p.165-67.
- Dewey, Chester.** Catalogue of Shells Given by Chester Dewey. Mus. rep. 9 (for 1855) 1856. p.31-38.
- Address at the Inauguration of the State Geological Hall. Mus. rep. 10 (for 1856) 1857. p.13-19.
- Meteorological Observations at Rochester, N. Y., for 1863. Mus. rep. 17 (for 1863) 1864. p.39-45.
- Meteorological Results for 1864 and for 28 Years now ended, Rochester, N. Y. Mus. rep. 18 (for 1864) 1865. p.214-31.
- Meteorological Observations at Rochester, N. Y. Mus. rep. 20 (for 1866) 1867. p.125-40.
- Dickinson, Harold T.** Bluestones and Other Sandstones in the Upper Devonian in New York State. Mus. bul. 61. 2 maps. *In press.*
- Dix, John A.** Report of the Secretary of State in Relation to a Geological Survey of the State. 60p. Assembly doc. 1836, no. 9.
 Also published in Dix, J. A. Speeches. 1864. 2:181-241.
- Dudley, P. H.** Fungi Destructive to Wood. Bot. rep. 41 (for 1887) 1888. p.86-94. *Same*, Mus. rep. 41 (for 1887) 1888. p.86-94.
- Bot. rep. 43 (for 1889) 1890. p.45-47. *Same*, Mus. rep. 43 (for 1889) 1890. p.91-93.
- Eastman, C. R.** Upper Devonian Fish-fauna of Delaware County, New York. Geol. rep. 17 (for 1897) 1899. p.317-27. illus. *Same*, Mus. rep. 51 (for 1897) 1899. 2:317-27. illus.
- Eaton, Amos.** Geological and Agricultural Survey of the District Adjoining the Erie Canal. 1824. 163p.

- Coal Formations in the State of New York. Alb. Inst. Trans. 1830. 1:126-30.
Read before the Albany Institute Mar. 11, 1830.
- Eberhardt, William G.** Bluestone Quarries of New York. Mus. bul. 15. 1895. p.411-19. *Same*, Mus. rep. 48 (for 1894) 1895. 1:411-19 (2d paging).
- Eckel, Edwin C.** Early history of the Portland Cement Industry in New York State. Mus. bul. 44. 1901. p.849-59. *Same*, Mus. rep. 54 (for 1900) 1902. 3:849-59.
- Manufacture of Portland Cement in New York State. Mus. bul. 44. 1901. p.860-76. *Same*, Mus. rep. 54 (for 1900) 1902. 3:860-76.
- Tests of Cement made by the State Engineer during 1897-1900. Mus. bul. 44. 1901. p.877-91. *Same*, Mus. rep. 54 (for 1900) 1902. 3:877-91.
- Serpents of Northeastern United States. Mus. bul. 51. 1902. p.355-88.
- Quarry Industry in Southeastern New York. Geol. rep. 20 (for 1900) 1902. p.141-76. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r141-76.
Also published separately.
Map of southeastern New York showing locations of quarries, 28.5x38cm.
- Molding Sand, its Uses, Properties and Occurrence. Geol. rep. 21 (for 1901) *In press*.
- Eights, James.** Description of a New Crustaceous Animal found on the Shores of the South Shetland Islands, with remarks on their natural history. Alb. Inst. Trans. 1833-52. 2 53-69. 2pl.
Communicated July 10, 1833.
- Description of a New Animal belonging to the Crustacea, discovered in the Antarctic Seas. Alb. Inst. Trans. 1833-52. 2:331-34. 2pl.
- Geological Features of the Post Tertiary Formation of the City of Albany and its Vicinity. Alb. Inst. Trans. 1833-52. 2:335-53.
Accepted Mar. 4, 1852.
- Emerson, B. K.** Notes upon Two Boulders of a Very Basic Eruptive Rock from the West Shore of Canandaigua Lake; and their Contact Phenomena upon the Trenton Limestone. Geol. rep. 12 (for 1892) 1893. p.105-9. *Same*, Mus. rep. 46 (for 1892) 1893. p.251-55.
Also published separately.
- Emmons, Ebenezer.** Annual Report of 2d Geological District. Assembly doc. 1837, no.161, p.97-153 (ed.2, p.99-155); 1838, no.200, p.185-252; 1839, no.275, p.201-39; 1840, no.50, p.259-353; 1841, no.150, p.113-36.
- Geology of New York, pt2, comprising the Survey of the Second Geological District. 1842. 10+437p. 17pl. sq. Q.
- Agriculture of New York. 1846-54. 5v. il. pl. sq. Q.
Contents: v. 1 Soils of the State, their Composition and Distribution. 11+371p. 21pl. 1846.
v. 2 Analyses of Soils, Plants, Cereals, etc. 8+343+46p. 42pl. 1849.
With hand-colored plates.
v. 3 Fruits, etc. 8+340p. 1851.
v. 4. Plates to accompany v.3. 95pl. 1851.
Hand-colored.
v. 5 Insects Injurious to Agriculture. 8+272p. 50pl. 1854.
With hand-colored plates.
- Catalogue of the Specimens Arranged by Prof. E. Emmons, as Representatives of the Taconic System, at the Close of the Geological Survey of New York in 1843. Geol. rep. 8 (for 1888) 1889. p.95-98. *Same*, Mus. rep. 42 (for 1888) 1889. p.441-44.
- Evans, Gurdon.** A General View and Agricultural Survey of the County of Madison. Ag. soc. Trans. 11 (for 1851) 1852. p.658-777.
- Fairchild, Herman Le Roy.** Pleistocene Geology of Western New York. Geol. rep. 20 (for 1900) 1902. p.r103-39. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r103-39.
Also published separately.
Map of the shore line and area of Lake Iroquois, 60x41.5cm.
- Latest and lowest Pre-Iroquois Channels between Syracuse and Rome. Geol. rep. 21 (for 1901). *In press*.

- Farr, Marcus S. Check List of New York Birds. Mus. bul. 33. 1900. p.193-409. *Same*, Mus. rep. 54 (for 1900) 1902. 1:193-409.
- — — Ed. 2 revised. Mus. bul. 33. 1900. p.193-414.
- Felt, Ephraim Porter. Reports as Entomologist. 14-18 (for 1898-1902).
 Also published in Museum reports.
- | | | | | |
|-----------------|--------------|---------------|---------------|-----|
| Report for 1898 | Mus. bul. 23 | <i>Same</i> . | Mus. rep. 52, | v.1 |
| " 1899 | " 31 | " | 53, | v.1 |
| " 1900 | " 36 | " | 54, | v.2 |
| " 1901 | " 53 | " | 55, | v.1 |
| " 1902 | " 64 | | | |
- Scorpion Flies. Ent. rep. 10 (for 1894) 1895. p.463-80. illus. *Same*, Mus. rep. 48 (for 1894) 1895. 1:463-80. illus.
 Also published separately.
- Additional Notes on Sciara. Ent. Rep. 12 (for 1896) 1897. p.223-29. *Same*, Mus. rep. 50 (for 1896) 1898. 1:223-29.
- Hints about Insecticides. Ent. rep. 14 (for 1898) 1898. p.221-30. (Mus. bul. 23). *Same*, Mus. rep. 52 (for 1898) 1900. 1:221-30.
 Also published separately.
- Elm-leaf Beetle in New York State. Mus. bul. 20. 1898. 43p. illus. 1pl. (lith.) 5pl. (phot.) *Same*, Mus. rep. 52 (for 1898) 1900. 1:1-43. illus. 1pl. (lith.) 5pl. (phot.)
- — — revised. Mus. bul. 57. 1902. 43p. illus. 7pl. (phot.) 1pl. (lith.)
- Descriptive Catalogue of Insects Exhibited at New York State Fair, Syracuse, 4-9 Sep. 1899. 26p.
- Memorial of the Life and Entomologic Work of J. A. Lintner Ph. D. *State Entomologist* 1874-98; Index to Entomologist's Reports 1-13. Mus. bul. 24. 1899. p.301-611. 1pl. (phot.) *Same*, Mus. rep. 52 (for 1898) 1900. 1:301-611. 1pl. (phot.)
- Collection, Preservation and Distribution of New York Insects. Mus. bul. 26. 1899. 34p. illus. *Same*, Mus. rep. 53 (for 1899) 1901. 1:3-34. illus.
- Shade-tree Pests in New York State. Mus. bul. 27. 1899. p.39-60. illus. 5pl. (phot.) *Same*, Mus. rep. 53 (for 1899) 1901. 1:39-60. 5pl. (phot.)
- Insects Injurious to Maple Trees. Forest, Fish and Game Com. rep. 4 (for 1898) 1899. p.367-95. illus. 3pl.
 Also published separately.
- Catalogue of Injurious and Beneficial Insects of New York State. Mus. bul. 37. 1900. 52p. illus. *Same*, Mus. rep. 54 (for 1900) 1902. 3:3-52. illus.
- Injurious Insects and How to Control them. Ag. Soc. Trans. 59 (for 1899) 1900. p.267-82. illus. 4pl.
- Household Insects. Ag. Soc. Trans. 59 (for 1899) 1900. p.294-303. illus. 2pl.
- Insects Injurious to Elm Trees. Forest, Fish and Game Com. rep. 5 (for 1899) 1900. p.351-79. illus. 3pl.
 Also published separately.
- Scale Insects of Importance and a List of the Species in New York. Mus. bul. 46. 1901. p.289-377. 7pl. (lith.) 8pl. (phot.) *Same*, Mus. rep. 54 (for 1900) 1902, 4:289-377. 7pl. (lith.) 8pl. (phot.)
- Aquatic Insects of the Saranac Region. Forest, Fish and Game Com. rep. 6 (for 1900) 1901. p.499-531. illus. 6pl.
- Entomology. University handbook 16. 1902. 12p.
- Grapevine Root Worm. Mus. bul. 59. 1902. p.49-84. illus. 1pl. (lith.) 5pl. (phot.)
- Insects Affecting Forest Trees. Forest, Fish and Game Com. rep. 7 (for 1901). *In press*.
- Importance of Injurious Insects Introduced from Abroad. Ent. rep. 18 (for 1902) p.116-26. *In press*.
- Read before the Society for the Promotion of Agricultural Science at its meeting held in Washington D. C. Dec. 29, 1902.
- Insects Affecting Park and Woodland Trees. Mus. mem. *In press*.

- Insecticides and Fungicides. University handbook 18. *In press.*
- & Joutel, L. H. Monograph of the Genus *Saperda*. Mus. bul. *In press.*
- Fenno, Frank E.** Plants of the Susquehanna Valley and Adjacent Hills of Tioga County. Bot. rep. (for 1902). *In press.*
- Finlay, George I.** Preliminary Report of Field Work in the Town of Minerva, Essex Co. Geol. rep. 20 (for 1900) 1902. p.96-102. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r96-102.
Also published separately.
Geologic map of the town of Minerva, 21x19cm.
- Fitch, Asa.** Catalogue of Insects in the State Cabinet of Natural History Dec. 1, 1848. Mus. rep. 2 (for 1848) 1849. p.25-39.
- Survey of Washington County. Ag. soc. Trans. 8 (for 1848) 1849. p.875-975.
- A Historical, Topographical and Agricultural Survey of the County of Washington. Ag. Soc. Trans. 9 (for 1849) 1850. p.753-944. map.
Map of Washington county (uncolored) 36x13cm.
- Catalogue with References and Descriptions of the Insects Collected and Arranged for the State Cabinet of Natural History. Mus. rep. 4 (for 1850) 1851. p.43-69.
On the Homoptera. Reprinted in Ent. rep. 9, p.381-409 and Mus. rep. 46, p.381-409.
- Reports on the Noxious, Beneficial and other Insects of the State of New York. 1855-72.
Published in New York State Ag. Soc. Transactions 14, p.705-880; 15, p.409-559; 16, p.315-490; 17, p.687-814; 18, p.781-854; 20, p.745-808; 21, p.813-59; 22, p.657-91; 23, p.778-823; 24, p.433-61; 26, p.487-543; 27, pt.2, p.889-932; 29, p.495-566; 30, p.355-81.
Rep't 1-11 also published separately.
Say's Heteropterous Hemiptera. 17, p.754-814.
- Fritz-Gaertner, R., Hall, J. W. &** On the Structure of *Astraeospongia meniscus*. Mus. rep. 30 (for 1876) 1878. p.111-16, pl.3.
- Notes on Phlogopyte. Mus. rep. 31 (for 1877) 1879. p.72-78.
- Gale, L. D.** Geology of New York County. Geol. rep. 1st dist. (for 1838) 1839. p.177-99.
- Diary of a Geological Survey of the Island of New York. Geol. N. Y. pt.1. 1843. p.581-604.
- Gaylord, Willis.** Geology as Connected with Agriculture. Ag. Soc. Trans. 1 (for 1841) 1842. p.273-98.
- Gebhard, John, jr.** Catalogues of Museum Collections. (*see* under name of collection, i. e. Zoological collection, etc. in Subject index *also* under Gebhard collection.)
- Statement and Proposal (offering for sale to the State his collection of fossils). Mus. rep. 6 (for 1852) 1853. p.9-11.
- Catalogue of the Cabinet of Fossils Sold by him to the State of New York. Mus. rep. 6 (for 1852) 1853. p.12-13, 29-30.
- Geddes, George.** Survey of Onondaga County. Ag. Soc. Trans. 19 (for 1859) 1860. p.219-352. illus. map.
Geographic and topographic map of Onondaga county, 79x57.5cm.
- Geddes, James.** Geological Features of the South Side of the Ontario Valley. Alb. Inst. Trans. 1829. 1:55-56.
Read before the Albany Institute, Feb. 15, 1826.
- Girty, George Herbert.** Revision of the Sponges and Coelenterates of the Lower Helderberg Group of New York. Geol. rep. 14 (for 1894) 1895. p.16, 259-309. 7pl. *Same*, Mus. rep. 48 (for 1894) 1895. 2:16, 259-309. 7pl.
Also published separately.
- Glenn, L. C. & Butts, Charles.** Stratigraphy and Paleontology of the Olean Quadrangle. Pal. rep. (for 1902). *In press.*
- Gould, Augustus A.** On Reorganization of State Cabinet. Mus. rep. 19 (for 1865) 1866. p.24-26.

- Grabau, Amadeus W.** Faunas of the Hamilton Group of Eighteen-mile Creek and Vicinity in Western New York. Geol. rep. 16 (for 1896) 1899. p.227-339. pl. (phot.) 3 tab. map. *Same*, Mus. rep. 50 (for 1896) 1899. 2:227-339. pl. (phot.) 3 tab. map.

Also published separately.

Map of the township of Hamburg, Erie co. (uncolored) 18x24.5cm.

- Guide to the Geology and Paleontology of Niagara Falls and Vicinity; with a chapter on Post-pliocene Fossils of Niagara by Elizabeth J. Letson. Mus. bul. 45. 1901. 284p. 18pl. (phot.) map. *Same*, Mus. rep. 54 (for 1900) 1902. 4:3-284. 18pl. (phot.) map.

Geologic map of Niagara river, 84.5x38cm.

Contains a partial bibliography of the geology of Niagara and the Great lakes.

- Stratigraphy of Becraft Mountain, Columbia Co. Pal. rep. (for 1902). *In press*.

With map.

- Green, Jacob.** Cones of North America. Alb. Inst. Trans. 1830. 1:121-25. Read before the Albany Institute, June 7, 1830.

- Dolia of the United States. Alb. Inst. Trans. 1830. 1:131-33. 1pl. Read before the Albany Institute, June 7, 1830.

- Notes on the American Shells, figured in the Supplement to the Index Testaceologicus. Alb. Inst. Trans. 1830. 1:134-36.

Read before the Albany Institute, June 7, 1830.

- Reclamation of Salamanders. Alb. Inst. Trans. 1830. 1:150-51. Read before the Albany Institute, June 7, 1830.

- Hall, C. E.** Laurentian Magnetic Iron Ore Deposits of Northern New York. Mus. rep. 32 (for 1878) 1879. p.133-40. *Same*, Geol. rep. 4 (for 1884) 1885. p.23-34, with geol. map of Essex co. 48x40.5cm.

- aHall, James.** Ores of Iron (in northern district). Geol. rep. 2d dist. (for 1836) 1837. p.127-49 (ed.2, p.129-51).

Facts in relation to gold ore obtained from W. W. Mather, *see note*, p.146.

- Annual Report of the Fourth Geological District of New York. Assembly doc. 1838, no.200, p.287-381; 1839, no.275, p.287-347; 1840, no.50, p.389-480; 1841, no.150, p.149-79.

- Geology of New York, pt4, comprising the Survey of the Fourth Geological District. 1843. 22+683p. 19pl. map, sq. Q.

Geologic map of the Middle and Western states.

- Geological Survey of New York. Ag. Soc. Trans. 3 (for 1843) 1844. p.241-78.

- Palaeontology of New York. 1847-94. 8v. il. pl. sq. Q.

Introduction to v.3, contains discussion of geologic formations, theory of mountain elevation, metamorphic rocks, and other geologic phenomena, 96p.

Contents: v. 1 Organic Remains of the Lower Division of the New York System. 23+338p. 99pl. 1847.

v. 2 Organic Remains of Lower Middle Division of the New York System. 8+362p. 104pl. 1852.

v. 3 Organic Remains of the Lower Helderberg Group and the Oriskany Sandstone. pt1, text. 12+532p. 1859.

— pt2, 143pl. 1861.

v. 4 Fossil Brachiopoda of the Upper Helderberg, Hamilton, Portage and Chemung Groups. 11+1+428p. 99pl. 1867.

v. 5 pt1 Lamellibranchiata 1. Monomyaria of the Upper Helderberg, Hamilton and Chemung Groups. 18+268p. 45pl. 1884.

— Lamellibranchiata 2. Dimyaria of the Upper Helderberg, Hamilton, Portage and Chemung Groups. 62+p.2:9-561. 51pl. 1885

v. 5 pt2 Gasteropoda, Pteropoda and Cephalopoda of the Upper Helderberg, Hamilton, Portage and Chemung Groups. 2v. 1879. v.1, text. 15+492p. v.2, 120pl.

v. 6 Corals and Bryozoa of the Lower and Upper Helderberg and Hamilton Groups. 24+298p. 67pl. 1887.

v. 7 Trilobites and Other Crustacea of the Oriskany, Upper Helderberg, Hamilton, Portage, Chemung and Catskill Groups. 64+236p. 46pl. 1888. Cont. supplement to v.5, pt2. Pteropoda, Cephalopoda and Annelida. 42p. 19pl. 1888.

v. 8 pt1 Introduction to the Study of the Genera of the Palaeozoic Brachiopoda. 16+367p. 44pl. 1892.

— pt2 Palaeozoic Brachiopoda, 16+394p. 84pl. 1894.

a For sketch of life by H. C. Hovey, including portrait, list of published works, list of titles and memberships, *see* American Geologist, Mar. 1899. 23:137-68. *See also* sketch by J. M. Clarke. Regents rep. 113. p.382-85.

- Catalogue of Specimens in the Palaeontological Department of the Geological Survey. Mus. rep. 1 (for 1847) 1848. 15p.
- Catalogue of Specimens in the Geological Department of the Geological Survey. Mus. rep. 1 (for 1847) 1848. 39p.
- Memorandum as to the Additions made to the Palaeontological Cabinet since April 11, 1848. Mus. rep. 2 (for 1848) 1849. p.68-70.
- Description of New Species of Fossils and Observations upon Some Other Species Previously not well known from the Trenton Limestone. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.173-83. 5pl.
- Catalogue of Specimens of the Rocks and Fossils in the Gray Sandstone, Medina Sandstone, Clinton Group, Niagara Group, Onondaga Salt Group and a Part of the Water-lime Group. Mus. rep. 4 (for 1850) 1851. p.117-42.
- Description of New Species of Fossils from the Carboniferous Limestones of Indiana and Illinois. Alb. Inst. Trans. 1858-64. 4:1-36.
Read before the Albany Institute, Nov. 27, 1856.
- Descriptions of Palaeozoic Fossils, chiefly from those constituting the third volume of the Palaeontology of New York. Mus. rep. 10 (for 1856) 1857. p.39-180.
- On the Genus *Tellinomya* and Allied Genera. Mus. rep. 10 (for 1856) 1857. p.181-86. *illus.*
From the Canadian Naturalist and Geologist. 1856. 1:390-95.
- Contributions to the Palaeontology of New York.
Contents:
Mus. rep. 12 (for 1858) 1859. p.7-96, 110, *illus.*
Notice of the Genera *Ambonychia*, *Palaearca* and *Megambonia*, p.8-14.
Observations on the Genera *Capulus*, *Pileopsis*, *Acroculia* and *Platygeras*, p.15-19.
Observations on the Genera *Platyostoma* and *Strophostylus*, p.20-22.
Observations on the Genus *Nucleospira*, p.23-34.
Observations on the Genus *Eatonia*, p.34-37.
Observations on the Genus *Rensselaeria*, p.38-41.
Observations on the Genus *Camarium*, p.42-44.
Notes upon the Genus *Graptolithus*, p.45-58.
Trilobites of the Shales of the Hudson River Group, p.59-62.
Catalogue of the Species of Fossils described in volumes 1, 2 and 3 of the Palaeontology of New York, with corrections in nomenclature, p.63-87.
Corrected List of the Fossils described in the Report of the 4th Geological District of New York, p.87-92.
Catalogue of the Species of Fossils described in the 3d volume of the Palaeontology of New York, p.93-96.
Supplementary Note on the Genus *Ambonychia*, p.110.
- Mus. rep. 13 (for 1859) 1860. p.53-125.
Notices of New Forms of the Genus *Graptolithus* and Allied Genera, p.55-64.
On Genus *Rhynchonella*, p.65-69.
Observations on *Orthis*, *Skenidium*, *Ambocoelia* and *Vitulina*, p.69-73.
Observations on the Genera *Athyris* (= *Spirigera*), *Merista* (= *Camarium*), *Meristella* and *Lelorrhynchus*, p.73-75.
Descriptions of New Species of Fossils from the Hamilton Group of Western New York, with Notices of Others from the Same Horizon in Iowa and Indiana, p.76-94.
Notes and Observations upon the Fossils of the Goniatite Limestone in the Marcellus Shale of the Hamilton Group, in the Eastern and Central Parts of the State of New York, and Those of the Goniatite Beds of Rockford, Ind., with Some Analogous Forms from the Hamilton Group Proper, p.95-112, 125.
Note upon the Trilobites of the Shales of the Quebec Group in the Town of Georgia, Vt. p.113-19.
New Species of Fossils from the Hudson River Group of Ohio and Other Western States, p.119-21.
Observations upon a New Genus of Crinoidea, *Cheirocrinus*, p.121-24.
- Mus. rep. 14 (for 1860) 1861. p.87-109.
Observations upon Some New and Other Species of Fossils from the Rocks of Hudson River Group of Ohio and the Western States, with Descriptions, p.89-92.
Note on the Genera *Bellerophon*, *Bucania*, *Carinaropsis* and *Cyrtolites*, p.93-98.
Descriptions of New Species of Fossils from the Upper Helderberg, Hamilton and Chemung Groups, with Observations upon Previously Described Species, p.99-109.
New Species of Fossils from Upper Helderberg, Hamilton and Chemung Groups, p.109-155.
- Mus. rep. 15 (for 1861) 1862. p.27-197. *illus.* 11pl.
p.27-114 also published separately in 1861, continued from p.109 of the 14th report.
Preliminary Notice of the Trilobites and Other Crustacea of the Upper Helderberg, Hamilton and Chemung Groups, p.82-114.

- Preliminary Notice of Some of the Species of Crinoidea Known in the Upper Helderberg and Hamilton Groups of New York, p.115-53.
 Observations upon a New Genus of Brachiopoda, p.154-55.
 Observations on the Genera *Athyris* (=Spirigera), *Merista*, *Camarium* and *Meristella*, p.176-91.
 Note on the Genus *Cypricardites*, p.192-93.
 Notes and corrections, p.195-97.

Mus. rep. 16 (for 1862) 1863. p.17-226. illus. 12pl.

- Descriptions of New Species of Brachiopoda from the Upper Helderberg, Hamilton and Chemung Groups, p.19-37.
 a Observations upon Some of the Brachiopoda, with Reference to the Characters of the Genera *Cryptonella*, *Centronella*, *Meristella*, *Trematospira*, *Rhynchospira*, *Retzia*, *Leptocoelia* and Allied Forms, p.38-61.
 Observations upon the Genus *Streptorhynchus*, with Remarks upon Some Species Heretofore Referred to the Genera *Strophomena* and *Orthis*, p.61-66.
 Note on the Geological Range of the Genus *Receptaculites* in American Palaeozoic Strata, p.67-69.
 Note on the Occurrence of *Astylospongia* in the Lower Helderberg Rocks, p.69-70.
 On the Occurrence of Crustacean Remains of the Genera *Ceratiocaris* and *Dithyrocaris*, with a Notice of Some New Species from the Hamilton Group and Genesee Slate, p.71-75.
 Observations upon Some Spiral-growing Fucoidal Remains of the Palaeozoic Rocks of New York, p.76-83.
 Observations upon the Genera *Uphantaenia* and *Dictyophyton*, with Notices of Some Species from the Chemung Group of New York and the Waverly Sandstone of Ohio, p.84-91.
 Flora of the Devonian Period, p.92-117.
 b Preliminary Notice of the Fauna of the Potsdam Sandstone, with Remarks upon the Previously Known Species of Fossils and Descriptions of Some New Ones from the Sandstone of the Upper Mississippi Valley, p.119-209.
 Supplementary Note on the Potsdam Sandstone, p.210-20.
 Supplementary Note on Some Fossils of the Lower Beds of the Potsdam Sandstone of the Upper Mississippi Valley, p.221-22.
 Notes and corrections, p.223-26.

Mus. rep. 17 (for 1863) 1864. p.50-60.

- p.50-60 also published separately in 1863.
 Preliminary Notice of Some Species of Crinoidea from the Waverly Sandstone Series of Summit County, Ohio, Supposed to be of the Age of the Chemung Group of New York, p.50-60.

Mus. rep. 20 (for 1866) 1867. p.241-303. illus.

- Observations on the Genera *Streptorhynchus* and *Strophodonta*, p.241.
 Genus *Chonetes* (Fischer, 1837), p.242-44.
 Remarks on the Genera *Productus*, *Strophalosia*, *Aulosteges* and *Productella*, p.245-50.
 On the Genera *Spirifera*, *Cyrtina* and Allied Genera, p.251-57.
 On the Genera *Athyris*, *Merista* and *Meristella*, p.258-66.
 Note upon the Genus *Zygospira* and its Relations to *Atrypa*, p.267-68.
 Remarks upon the Genera *Rhynchonella* and *Leiorhynchus*, p.269-73.
 Note on the Genus *Eichwaldia*, p.274-78.
 On the Genus *Tropidoleptus*, p.279-81.
 Note on the Genus *Palaeaster*, with Descriptions of Some New Species and Observations upon Those Previously Described, p.282-303.
 c Descriptions of some New Species of Crinoidea and other Fossils from the Lower Silurian Strata, principally of the Age of the Hudson River Group, p.304.
 d Descriptions of Bryozoa and Corals from the Lower Helderberg Group of New York, p.304.
 e Descriptions of Bryozoa, etc. from the Upper Helderberg and Hamilton Groups of New York, p.304.

— New Species of Fossils from a Locality of the Niagara Group in Indiana, with a List of Identified Species from the Same Place. *Alb. Inst. Trans.* 1858-64. 4:195-228.

Read before the Albany Institute, Ap. 29, 1862.

A revised edition in *Alb. Inst. Trans.* 10:57-76, and *Mus. rep.* 28, p.99-203.

— On Reorganization of State Cabinet. *Mus. rep.* 19 (for 1865) 1866. p.27-32.

— Notice of v.4 of the Palaeontology of New York. *Mus. rep.* 20 (for 1866) 1867. p.145-68. illus.
 Also published separately.

— Introduction to the Study of the Graptolitidae. *Mus. rep.* 20 (for 1866) 1867. p.169-240. illus. 4pl.

a Also published in *Alb. Inst. Trans.* 4:125-48.

b Also published in *Alb. Inst. Trans.* 1864. 5:93-195.

c Title given here, but paper was published in *Mus. rep.* 24, p.205-24.

d Title given here, but paper was published in *Mus. rep.* 26, p.93-116.

e Title given here, but paper was afterward published separately, also in *Alb. Inst. Trans.* 1883. 10:145-97.

- Descriptions of New or Little Known Species of Fossils from Rocks of the Age of the Niagara Group. Mus. rep. 20 (for 1866) 1867. p.305-401. pl.10-23.
Originally printed in 1864.
- Reports as Curator of Museum. Mus. rep. 21-23 (for 1867-69) 1869-73.
For page references, see List of publications, p.245-46.
- Notes and Observations on the Cohoes Mastodon. Mus. rep. 21 (for 1867) 1871. p.99-148. 5pl. 2 maps.
Map of Cohoes and vicinity, showing course of the Mohawk, 23 x 18.5cm.
Map of Cohoes falls and vicinity (uncolored) 67x42cm.
- Reports as Director of Museum. Mus. rep. 24-47 (for 1870-93) 1872-94.
For later reports, see Merrill, F. J. H.
For contents of reports, see List of publications, p.246-52.
- Fossil Trees in Schoharie County. Mus. rep. 24 (for 1870) 1872. p.15-16.
- & Whitfield, R. P. Description of New Species of Fossils from the Vicinity of Louisville, Ky. and the Falls of the Ohio. Mus. rep. 24 (for 1870) 1872. p.181-200a. 5pl. in 27th report.
- Remarks on Some Peculiar Impressions in Sandstone of the Chemung Group, New York. Mus. rep. 24 (for 1870) 1872. p.201-4.
- Description of New Species of Crinoidea and Other Fossils from Strata of the Age of the Hudson river Group and Trenton Limestone. Mus. rep. 24 (for 1870) 1872. p.205-24. pl. 5-7.
Originally published in part in 1866.
- Description of New Species of Fossils from the Hudson River Group in the Vicinity of Cincinnati, O. Mus. rep. 24 (for 1870) 1872. p.225-32. pl.8.
Published, Oct. 1871.
- & Whitfield, R. P. Descriptions of New Species of Fossils from the Devonian Rocks of Iowa. Mus. rep. 23 (for 1869) 1873. p.223-39. pl.9-12.
- Notice of Three New Species of Fossil Shells from the Devonian of Ohio. Mus. rep. 23 (for 1869) 1873. p.240-41.
- Notice of Two New Species of Fossil Shells from the Potsdam Sandstone of New York. Mus. rep. 23 (for 1869) 1873. p.241-42.
- Notes on Some New or Imperfectly known Forms among the Brachiopoda, etc. Mus. rep. 23 (for 1869) 1873. p.244-47. pl. 13.
Also published separately, 1871.
- Reply to a "Note on a Question of Priority." Mus. rep. 23 (for 1869) 1873. p.248-52.
- Descriptions of Bryozoa and Corals of the Lower Helderberg Group. Mus. rep. 26 (for 1872) 1874. p.93-116.
- *revised*. Mus. rep. 32 (for 1878) 1879. p.141-76.
Also published separately.
- 33 plates and explanations illustrating Corals and Bryozoans of Upper and Lower Helderberg groups. Geol. rep. 2 (for 1882) 1883.
- The Niagara and Lower Helderberg Groups: their Relations and Geographical Distribution in the United States and Canada. Mus. rep. 27 (for 1873) 1875. p.117-31, map 70x50cm.
From Proceedings of American Association for the Advancement of Science, Aug. 1873.
- Descriptions of New Species of Goniatitidae, with a List of Previously Described Species. Mus. rep. 27 (for 1873) 1875. p.132-36.
Published in advance, May 1874.
- Illustrations of Devonian Fossils. 1876.
Published in advance of Palaeontology of N. Y. v.5, pt2-v.7
- The Hydraulic Beds and Associated Limestones at the Falls of the Ohio. Alb. Inst. Trans. 1879. 9:169-80.
Read before the Albany Institute, Dec. 4, 1877.
- Note on the Genus Plumalina. Mus. rep. 30 (for 1876) 1878. p.255-56. pl.4.

- Fauna of the Niagara Group in Central Indiana. Mus. rep. 28 (for 1874) 1879. p.99-203. 32pl.
Printed as a legislative document, 1876.
Other editions in Alb. Inst. Trans. 4:195-228 and 10:57-76.
- Notice of Some Remarkable Crinoidal Forms from the Lower Helderberg Group. Mus. rep. 28 (for 1874) 1879. p.205-10. pl.35-37.
Also published in quarto, 1880.
- Descriptions of New Species of Fossils from the Niagara Formation at Waldron, Indiana. Alb. Inst. Trans. 1883. 10:57-76.
Read before the Albany Institute, Mar. 18, 1879.
Another edition in Alb. Inst. Trans. 4:195-228 and Mus. rep. 28, p.99-203.
- Bryozoans of the Upper Helderberg and Hamilton Groups. Alb. Inst. Trans. 1883. 10:145-97.
Read by title before the Albany Institute, Mar. 29, 1881.
- State Museum of Natural History. Public Service of the State of New York. 1882. 3:482-88.
- Geological Survey. Public Service of the State of New York. 1882. 2:367-80.
Also published in Pop. Sci. Monthly, Ap. 1883. 22:815-25.
- Bryozoa (Fenestellidae) of the Hamilton Group. Mus. rep. 36 (for 1882) 1883. p.57-72.
Also published separately.
- Plates and descriptions. Geol. rep. 6 (for 1886) 1887. p.41-70. 7pl. Mus. rep. 41 (for 1887) 1888. pl.8-15.
- On the Structure of the Shell in the Genus *Orthis*. Mus. rep. 36 (for 1882) 1883. p.73-75. pl.3-4.
Also published separately.
- Description of a New Species of *Stylonurus* from the Catskill Group. Mus. rep. 36 (for 1882) 1883. p.76-77. pl.5.
Also published separately.
- Illustration of *Cryptozoön*. Mus. rep. 36 (for 1882) 1883. pl.6.
Also published separately.
- Discussion upon the Manner of Growth, Variation of Form and Characters of the Genus *Fenestella*, and its Relations to *Hemitrypa*, *Polypora*, *Retepora*, *Cryptopora*, etc. Geol. rep. 2 (for 1882) 1883. p.5-16, illus. *continued* Geol. rep. 4 (for 1884) 1885. p.35-45. illus. 2pl.
- Brachiopoda, plates and explanations. Geol. rep. 2 (for 1882) 1883. pl.34-61.
- Reports of Geologist and Palaeontologist. Geol. rep. 1-17 (for 1881-97) 1884-99. Mus. rep. 38-51 (for 1884-97) 1885-99.
Dr Hall was appointed paleontologist by Gov. Bouck in 1843, while his title as geologist originated from the commission of 1837 on the geological survey. For his other reports, see Annual Report of the Fourth Geological District 1838-41; final report, 1843, and his reports as curator and director of museum, 1867-93.
Geol. rep. 18, edited by J. M. Clarke, acting state geologist and paleontologist.
For page references and contents see List of publications, p.257-61.
For later reports of geologist, see Merrill, F. J. H.; of paleontologist, see Clarke, J. M.
- Classification of the Lamellibranchiata. Geol. rep. 1 (for 1881) 1884. p.8-15. 11pl.
- Descriptions of Bryozoans of the Hamilton Group (*Fenestellidae* excepted). Geol. rep. 3 (for 1883) 1884. p.5-61.
- Preliminary Notice of the Lamellibranchiate Shells of the Upper Helderberg, Hamilton and Chemung Groups (preparatory for the Palaeontology of New York). Mus. rep. 35 (for 1881) 1884. p.215-406g.
For plates, see Geologist's report for 1881.
Also published separately, with 5 plates additional.
- Descriptions of Fossil Corals from the Niagara and Upper Helderberg Groups. Mus. rep. 35 (for 1881) 1884. p.407-64. pl.23-30.
Published in advance, 1882, 59p.; also pub. in Indiana—Dep't of Geol. and Nat. Hist. Annual Rep. 12 (for 1882) p.271-318. 14 plates.
- Descriptions of the Species of Fossil Reticulate Sponges Constituting the Family *Dictyospongidae*. Mus. rep. 35 (for 1881) 1884. p.465-81. pl.18-21.
Also published in advance, without plates.

- On the Relations of the Genera *Stictopora*, *Ptilodictya*, *Acrogenia* and Allied Forms in the Palaeozoic Rocks of New York. Geol. rep. 4 (for 1884) 1885. p.46. illus.
- Note [on some Palaeozoic pectenoid shells]. Geol. rep. 4 (for 1884) 1885. p.47. illus.
- Geological Map of the State of New York. Geol. rep. 4 (for 1884) 1885. p.4-8; 9 (for 1889) 1890. p.16-25; 12 (for 1892) 1893. p.8-13, 25-39; 13 (for 1893) 1894. p.193-94; 14 (for 1894) 1895. p.9-11; 15 (for 1895) 1897. p.7. Mus. rep. 36 (for 1883) 1884. p.12; 38 (for 1884) 1885. p.62-65; 43 (for 1889) 1890. p.218-27; 46 (for 1892) 1893. p.154-59, 171-85; 47 (for 1893) 1894. p.13-14, 387-88; 48 (for 1894) 1895. 1:43, 2:9-11; 49 (for 1895) 1898. 2:7.
- Note on Some Obscure Organisms in the Roofing Slates of Washington County, N. Y. Mus. rep. 39 (for 1885) 1886. p.160. pl.11.
- Report on Building Stones. Mus. rep. 39 (for 1885) 1886. p.186-225. Communicated to commissioners of new capitol, 1868. Also published separately, 1886, 44p.
- Plates and explanations of Cephalopoda, supplementary to Palaeontology of New York, v.5, pt2. Geol. rep. 5 (for 1885) 1886. pl.1-14 (117-29).
- Plates and explanations, published in advance of Palaeontology of New York, v.6. Geol. rep. 5 (for 1885) 1886. pl.25, 27, 29-32, 40-41, 44-45, 48, 50-51, 53.
- Note on the Occurrence of the Dictyospongidae in the State of New York. Geol. rep. 6 (for 1886) 1887. p.36-38. map.
Map showing geographic distribution of Dictyospongidae in Steuben and adjoining counties, 33 x 26cm.
- Note on the Discovery of a Skeleton of an Elk (*Elaphus canadensis*) in the Town of Farmington, Ontario co. Geol. rep. 6 (for 1886) 1887. p.39.
- Educational Uses of Museums of Natural History. Regents rep. 100 (for 1886) 1887. p.208-13.
Read before the University Convocation, July 7, 1886.
- Description of New Species of Fenestellidae of the Lower Helderberg with Explanation of Plates Illustrating Species of the Hamilton Group. Mus. rep. 41 (for 1887) 1888. p.393-94. pl.8-15.
- Crustaceous Tracks from Potsdam Sandstone of Port Henry, N. Y. Mus. rep. 42 (for 1888) 1889. p.25-34. 1pl.
- Record of Locality Numbers Marking the Specimens Collected for the Illustration of the Palaeontology of New York. Geol. rep. 8 (for 1888) 1889. p.104-50; *continued* 9 (for 1889) 1890. p.61-72. *Same*. Mus. rep. 42 (for 1888) 1889. p.450-96; *continued* 43 (for 1889) 1890. p.263-74.
- New Forms of Dictyospongidae from the Rocks of the Chemung Group. Geol. rep. 9 (for 1889) 1890. p.56-60. *Same*. Mus. rep. 43 (for 1889) 1890. p.258-62.
First published notice of species in Proceedings of Geological Society of America.
- Continuation of Descriptions of Bryozoa not printed in v.6, Palaeontology of New York. Geol. rep. 10 (for 1890) 1891. p.35-57. *Same*. Mus. rep. 44 (for 1890) 1892. p.65-87.
- Preliminary Notice of *Newberria*, a New Genus of Brachiopods; with Remarks on its Relations to *Rensselaeria* and *Amphigenia*. Geol. rep. 10 (for 1890) 1891. p.91-98. pl.5-6.
Also published separately.
- Record of Localities of Extra-limital Geological and Palaeontological Collections of the New York State Museum. Geol. rep. 11 (for 1891) 1892. p.122-23. *Same*. Mus. rep. 45 (for 1891) 1892. p.438-39.
- & Clarke, J. M. Introduction to the Study of the Brachiopoda, Intended as a Handbook for the Use of Students. Geol. rep. 11 (for 1891) 1892. p.133-300. illus. 22pl. map. Pt2, Geol. rep. 13 (for 1893) 1894. 2:749-943. illus. pl.23-54. *Same*. Mus. rep. 45 (for 1891) 1892. p.449-616. map. *no plates*. Pt2, Mus. rep. 47 (for 1893) 1894. p.943-1137. illus. *no plates*.
Also published separately.
Chart of the world showing distribution of recent Brachiopoda, 43 x 23.5cm.

- Collections of Fossils made for the Palaeontology of New York previous to 1883. Mus. rep. 46 (for 1892) 1893. p.62-74.
- Additions to the Museum Collections in Geology and Palaeontology made in Connection with Work on the Geological Map. Mus. rep. 46 (for 1892) 1893. p.75-81.
- Livonia Salt Shaft, its History and Geological Relations, etc. Geol. rep. 13 (for 1893) 1894. p.11-20. diagrams. maps. *Same*, Mus. rep. 47 (for 1893) 1894. p.203-14. diagrams. maps.
Also published separately.
Map showing area of New York covered by Onondaga salt group, 37 x 14.5cm.
Map showing salt-producing district of western N. Y. 34.5x21.5cm (in Geol. rep. only).
- & Clarke, J. M. New Species of Brachiopoda described in Palaeontology of New York, v.8, pt1 and 2. Geol. rep. 14 (for 1894) 1895. p.16-18, 323-72. 14pl. *Same*. Mus. rep. 48 (for 1894) 1895. 2:16-18, 323-72. 14pl.
Also published separately.
- Discussion of Streptelasma and Allied Genera of Rugose Corals. Geol. rep. 15 (for 1895) 1897. p.24-25. *Same*, Mus. rep. 49 (for 1895) 1898. 2:24-25.
Work planned by Dr Hall; continued by George B. Simpson.
- & Clarke, J. M. Memoir on the Palaeozoic Reticulate Sponges constituting the Family Dictyospongiidae. Mus. mem. 2. 1898. 350p. illus. 70pl. *Same*, Pt1, Geol. rep. 15 (for 1895) 1898. 2:741-984. illus. 47pl. Pt2, Geol. rep. 16 (for 1896) 1899. p.341-448. illus. pl.48-70. *Same*, Pt1, Mus. rep. 49 (for 1895) 1898. 3:741-984. illus. 47pl. Pt2, Mus. rep. 50 (for 1896) 1899. 2:341-448. illus. pl.48-70.
Contains a bibliography.
For complete catalogue of published works, see Murray, David.
- Hall, James W.** Machinery and Methods of Cutting Specimens of Rocks and Fossils. Mus. rep. 35 (for 1881) 1884. p.121-24. 2pl.
- & Fritz-Gaertner, R. On the Structure of *Astraeospongia meniscus*. Mus. rep. 30 (for 1876) 1878. p.111-16. pl.3.
- Hartnagel, Chris A.** Preliminary Observations on the Cobleskill (Coraline) Limestone of New York. Pal. rep. (for 1902). *In press*.
- Hayden, M. D., Meek, F. B. &** Descriptions of New Organic Remains from North-eastern Kansas, indicating the Existence of Permian Rocks in that Territory. Alb. Inst. Trans. 1853-64. 4:73-88.
Read before the Albany Institute, Mar. 2, 1858.
- Henry, Joseph.** Topographical Sketch of the State of New York, designed chiefly to Show the General Elevations and Depressions of its Surface. Alb. Inst. Trans. 1829. 1:87-112. map.
Read before the Albany Institute, Oct. 28, 1829.
- Hill, Benjamin F., Kemp, J. F., Newland, D. H. &** Preliminary Report on the Geology of Hamilton, Warren and Washington Counties. Geol. rep. 18 (for 1898) 1899. p.137-62. maps (uncolored). *Same*, Mus. rep. 52 (for 1898) 1900. 2:137-62. maps (uncolored).
Also published separately.
- **Kemp, J. F. &** Preliminary Report on the Precambrian Formations in Parts of Warren, Saratoga, Fulton and Montgomery Counties. Geol. rep. 19 (for 1899) 1901. p.17-35. pl. (phot.) maps (uncolored). *Same*, Mus. rep. 53 (for 1899) 1901. 1:r17-35. pl. (phot.) maps (uncolored).
Map of the "Noses" (colored).
- Hitchcock, Edward.** Address at the Inauguration of the State Geological Hall. Mus. rep. 10 (for 1856) 1857. p.20-26.
- Hollick, Arthur.** Field Work during 1901 in the Cretaceous Beds of Long Island. Geol. rep. 21 (for 1901). *In press*.
- Horsford, E. N.** Report on the Geology of Cattaraugus County. Geol. rep. 4th dist. (for 1839) 1840. p.457-72.
- Horton, William.** Geology of Orange County. Geol. rep. 1st dist. (for 1838) 1839. p.135-75.

- Hough, Franklin B.** Notice of Several Ancient Remains of Art in Jefferson and St Lawrence Counties. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.99-105. 5pl.; 4 (for 1850) 1851. p.103-9. 5pl.
 — Results of a Series of Meteorological Observations from 1826-71, made in Obedience to Instructions from the Regents of the University. 1855-72. 2v. pl. maps, tab.
 — On Reorganization of State Cabinet. Mus. rep. 19 (for 1865) 1866. p.22-24.
 — Early Observations upon Magnetic Variations. Mus. rep. 22 (for 1868) 1869. p.109-13. map.
- Howe, E. C.** New York Species of Carex. Bot. rep. 48 (for 1894) 1895. p.20-104. *Same*, Mus. rep. 48 (for 1894) 1895. 1:118-202.
- Howell, Edwin E.** Map of New York and Vicinity. Mus. rep. 51 (for 1897) 1899. p.9-10. map 22.5 x 14.5cm.
- Hunt, T. Sterry.** On Reorganization of State Cabinet. Mus. rep. 19 (for 1865) 1866. p.12-13.
 — On the Mineralogy of the Laurentian Limestones of North America. Mus. rep. 21 (for 1867) 1871. p.47-98.
- Jewett, Ezekiel.** Letter Regarding Fossils of the Chemung Group. Mus. rep. 15 (for 1861) 1862. p.198.
- Johannsen, O. A.** Aquatic Nematoceros Diptera. Mus. bul. 68. *In press.*
- Johnson, David.** Meteorological Observations at Newbury, Vt., for 1863-64. Mus. rep. 17 (for 1863) 1864. p.36-38; 18 (for 1864) 1865. p.210-11.
- Joutel, L. H. & Felt, E. P.** Monograph of the Genus Saperda. Mus. bul. *In press.*
- Kellogg, James L.** Clam and Scallop Industries of New York. Mus. bul. 43. 1901. p.601-31, 2pl. (phot.) map. *Same*, Mus. rep. 54 (for 1900) 1902. 3:601-31. 2pl. (phot.) map.
 Map of Long Island, 25.5 x 11.5cm.
 — Feeding Habits and Growth of Venus mercenaria. Mus. bul. *In press.*
- Kemp, James Furman.** Preliminary Report on the Geology of Essex County. Geol. rep. 13 (for 1893) 1894. p.431-72. maps (uncolored). *Same*, Mus. rep. 47 (for 1893) 1894. p.625-66. maps (uncolored).
 Also published separately.
 Contains a bibliography.
 — *continued.* Geol. rep. 15 (for 1895) 1897. p.22-23, 575-614. 1pl. (phot.) maps (uncolored). *Same*, Mus. rep. 49 (for 1895) 1898. 2:22-23, 575-614. 1pl. (phot.) maps (uncolored).
 Also published separately.
 Map of Essex county (uncolored).
 — Geology of Moriah and Westport Townships, Essex County, N. Y. Mus. bul. 14. 1895. p.323-55. 7pl. (phot.) maps (uncolored). *Same*, Mus. rep. 48 (for 1894) 1895. 1:323-55 (2d paging). 7pl. (phot.) maps (uncolored).
 Map of the Mineville district, Essex co., 30 x 33cm.
 Geologic map of Moriah and Westport townships, Essex co., 33 x 44cm.
- Geology of the Lake Placid Region. Mus. bul. 21. 1898. p.47-67. 1pl. (phot.) map. *Same*, Mus. rep. 52 (for 1898) 1900. 1:47-67. 1pl. (phot.) map.
 Geologic map of area around Lake Placid, 33 x 34cm.
- & Newland, D. H. Preliminary Report on the Geology of Washington, Warren and Parts of Essex and Hamilton Counties. Geol. rep. 17 (for 1897) 1899. p.499-553. pl. (phot.) maps (uncolored). *Same*, Mus. rep. 51 (for 1897) 1899. 2:499-553. pl. (phot.) maps (uncolored).
 Also published separately.
- Newland, D. H. & Hill, B. F. Preliminary Report on the Geology of Hamilton, Warren and Washington Counties. Geol. rep. 18 (for 1898) 1899. p.137-62. maps (uncolored). *Same*, Mus. rep. 52 (for 1898) 1900. 2:137-62. maps (uncolored).
 Also published separately.

- & Hill, B. F. Preliminary Report on the Precambrian Formations in Parts of Warren, Saratoga, Fulton and Montgomery Counties. Geol. rep. 19 (for 1899) 1901. p.17-35. pl. (phot.) maps (uncolored). *Same*, Mus. rep. 53 (for 1899) 1901. 1:r17-35. pl. (phot.) maps (uncolored). Map of the "Noses" (colored).
- Kümmel, Henry B.** The Newark or New Red Sandstone Rocks of Rockland County, N. Y. Geol. rep. 18 (for 1898) 1899. p.9-50. pl. (phot.) map. *Same*, Mus. rep. 52 (for 1898) 1900. 2:9-50. pl. (phot.) map. Also published separately. Map showing Triassic rocks of Rockland county, 45 x 44cm.
- Lansing, John V.** Frogs and their Contributions to Science. Alb. Inst. Trans. 1870. 6:120-35.
- Lapham, I. A.** Meteorological Observations at Milwaukee, Wis. Mus. rep. 20 (for 1866) 1867. p.122-23.
- Leeds, Albert R.** Notes upon the Lithology of the Adirondacks. Mus. rep. 30 (for 1876) 1878. p.79-109.
- Letson, Elizabeth J.** Post-pliocene Fossils of the Niagara River Gravels. Mus. bul. 45. 1901. p.238-52. *Same*, Mus. rep. 54 (for 1900) 1902. 4:238-52.
- Lincklaen, Ledyard.** Guide to the Geology of New York and to the State Geological Cabinet. Mus. rep. 14 (for 1860) 1861. p.17-84. 20pl.
- Lincoln, David Francis.** Report on the Structural and Economic Geology of Seneca County. Geol. rep. 14 (for 1894) 1895. p.12-13, 57-125. pl. (phot.) map (uncolored) 27.5 x 48.5cm. *Same*, Mus. rep. 48 (for 1894) 1895. 2:12-13, 57-125. pl. (phot.). Also published separately.
- Lintner, Joseph Albert.** Entomological Contributions. Mus. rep. 23-24, 26-27, 30 (for 1869-70, 1872-73, 1876) 1872-73, 1874-75, 1878. For page references, see List of publications, p.246-47.
- Reports as Entomologist. 1-13 (for 1881-97). Reports 1 and 2 were issued independently of the museum. Reports 3-13 also published in museum reports. For index to Reports 1-13, see Mus. bul. 24.
- Otto Meske's Collection of Lepidoptera. Alb. Inst. Trans. 1876. 8:215-20. Read before the Albany Institute, Oct. 20, 1874.
- The Insects and Other Animal Forms of Caledonia Creek, N. Y. Mus. rep. 32 (for 1878) 1879. p.75-99. From the 10th report of the New York Commissioners of Fisheries.
- White Grub of the May Beetle. Mus. bul. 5. 1888. 32p. illus.
- Cut-worms. Mus. bul. 6. 1888. 36p. illus.
- Present State of Entomological Science in United States. Ent. rep. 4 (for 1887) 1888. p.163-72. *Same*, Mus. rep. 41 (for 1887) 1888. p.283-92. Read before the University Convocation, July 6, 1886. Also published in Regents rep. 100 (for 1886) 1887. p.122-34.
- Annual Address of President of Entomological Club of A. A. A. S. Ent. rep. 4 (for 1887) 1888. p.172-83. *Same*, Mus. rep. 41 (for 1887) 1888. p.292-303. Read at Buffalo meeting, Aug. 17, 1886.
- Some Pests of the Pomologist. Ent. rep. 4 (for 1887) 1888. p.183-92. *Same*, Mus. rep. 41 (for 1887) 1888. p.303-12. From the report of the American Pomological Society for 1887. Also published separately, 13p.
- Insects of the Past Year and Progress in Insect Studies. Alb. Inst. Trans. 1893. 12:227-40. Read before the Albany Institute, Ap. 15, 1890.
- Late Experiences with Insects Injurious to the Orchard and Garden. Ent. rep. 7 (for 1890) 1891. p.342-56. *Same*, Mus. rep. 44 (for 1890) 1892. p.342-56. From the Proceedings of the Western New York Horticultural Society. 1890. Read at its annual meeting, Jan. 22, 1890. Also published separately.

- Some Injurious Insects of Massachusetts. Ent. rep. 8 (for 1891) 1893. p.227-57. *Same*, Mus. rep. 45 (for 1891) 1892. p.227-57.
Read before the Massachusetts State Board of Agriculture, at Framingham, Dec. 3, 1885.
Also published separately.
- Our Insect Enemies and How to Meet them. Ent. rep. 8 (for 1891) 1893. p.258-77. *Same*, Mus. rep. 45 (for 1891) 1892. p.258-77.
Read before the New Jersey State Board of Agriculture, at Trenton, Feb. 1, 1889.
Also published separately.
- Reports of Committee on Entomology. Ent. rep. 9 (for 1892) 1893. p.414-37. *Same*, Mus. rep. 46 (for 1892) 1893. p.414-37.
Read before the Western New York Horticultural Society, Jan. 29, 1891.
Also published separately.
- The San José Scale and Some Other Destructive Scale-insects of New York State. Mus. bul. 13. 1895. p.263-305, 7pl. (phot.) *Same*, Mus. rep. 48 (for 1894) 1895. 1:263-305 (2d paging). 7pl. (phot.)
Reprinted with additions in Ent. rep. 11 and Mus. rep. 49, v.1, p.200-33.
- On Arsenical Spraying of Fruit Trees while in Blossom. Ent. rep. 11 (for 1895) 1896. p.117-24. *Same*, Mus. rep. 49 (for 1895) 1897. 1:117-24.
Read before the Association of Economic Entomologists at its 5th meeting, Madison Wis. Aug. 16, 1893. Also published in Insect Life, Dec. 1893. 6:181-85.
- The Mosquito. Ent. rep. 12 (for 1896) 1897. p.319-35. *Same*, Mus. rep. 50 (for 1896) 1898. 1:319-35.
Read before the Dana Natural History Society of Albany, May 14, 1887.
- Plea for Entomological Study. Ent. rep. 12 (for 1896) 1897. p.336-45. *Same*, Mus. rep. 50 (for 1896) 1898. 1:336-45.
Read before the Agassiz Association of the State Normal College, Albany, May 18, 1894.
For complete list of Dr Lintner's works, see Museum bul. 24.
- Logan, Sir William E.** On Reorganization of State Cabinet. Mus. rep. 19 (for 1865) 1866. p.12-13.
- On the Track of an Animal found in the Potsdam Formation. Mus. rep. 42 (for 1888) 1889. p.30-34.
Read before the Natural History Society of Montreal, June 1860, and published in Canadian Naturalist and Geologist. 1860. 5:279-85.
- Loomis, Frederic B.** Siluric Fungi from Western New York. Mus. bul. 39. 1900. p.223-26. pl.16. *Same*, Mus. rep. 54 (for 1900) 1902. 3:223-26. pl.16.
- The Dwarf Fauna of the Pyrite Layer at the Horizon of the Tully Limestone in Western New York. Pal. rep. (for 1902). *In press*.
- Luther, D. Dana.** Report on the Geology of the Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p.21-130. pl. (phot.) *Same*, Mus. rep. 47 (for 1893) 1894. p.215-324. pl. (phot.)
Also published separately.
- Stratigraphic Position of the Portage Sandstones in the Naples Valley and the Adjoining Region. Geol. rep. 15 (for 1895) 1897. p.13-14, 223-36. pl. (phot.) map. *Same*, Mus. rep. 49 (for 1895) 1898. 2:13-14, 223-36. pl. (phot.) map.
Also published separately.
Geologic map of the township of Naples, 17 x 16.5cm.
- Economic Geology of Onondaga County, N. Y. Geol. rep. 15 (for 1895) 1897. p.14-16, 237-303. pl. (phot.) maps. *Same*, Mus. rep. 49 (for 1895) 1898. 2:14-16, 237-303. pl. (phot.) maps.
Also published separately.
Map of Onondaga county (uncolored) 34 x 34cm.
Geologic map of Onondaga county (colored) 34 x 38cm.
- The Brine Springs and Salt Wells of the State of New York, and the Geology of the Salt District. Geol. rep. 16 (for 1896) 1899. p.171-226. pl. (phot.) map. *Same*, Mus. rep. 50 (for 1896) 1899. 2:171-226. pl. (phot.) map.
Also published separately.
Geologic map of the salt district, 45 x 24cm.
- **Ruedemann, R., Clarke, J. M. &** Contact Lines of Upper Siluric Formations on the Brockport and Medina Quadrangles. Mus. bul. 52. 1902. p.517-23.

- Stratigraphic Value of the Portage Sandstones. Mus. bul. 52. 1902. p.616-31.
- Stratigraphy of the Portage Formation between the Genesee Valley and Lake Erie. Pal. rep. (for 1902). *In press.*
- MacGillivray, Alexander D.** Aquatic Chrysomelidae, together with a Table of the Families of Coleopterous Larvae. Mus. bul. 68. *In press.*
- Marsh, E. S.** Meteorological Observations at Milwaukee, Wis. Mus. rep. 20 (for 1866) 1867. p.122-23.
- Marshall, William B.** Beaks of Unionidae inhabiting the Vicinity of Albany, N. Y. Mus. bul. 9. 1890. p.167-89. 1pl.
- Report on a Deposit of Marl and Peat in the Town of New Baltimore. Mus. rep. 45 (for 1891) 1892. p.46-52.
- Preliminary List of New York Unionidae. Mus. bul. 1. 1892. 20p
- Report on the Zoological Department of the State Museum, by assistant zoologist. Mus. rep. 45 (for 1891) 1892. p.15-19; 46 (for 1892) 1893. p.15-17; 47 (for 1893) 1894. p.30-32; 48 (for 1894) 1895. 1:639-40.
- *Necturus maculatus* in the Hudson River. Mus. rep. 47 (for 1893) 1894. p.33-34.
- Mammals of New York exhibited at the World's Columbian Exposition, Chicago, Ill., 1893. Mus. rep. 47 (for 1893) 1894. p.41-48.
- Land and Fresh-water Shells of New York exhibited at the World's Columbian Exposition, Chicago, Ill., 1893. Mus. rep. 47 (for 1893) 1894. p.49-75.
- Geographical Distribution of New York Unionidae. Mus. rep. 48 (for 1894) 1895. 1:45-99.
- List of Shells inhabiting the Vicinity of Albany and Troy, N. Y. Mus. rep. 48 (for 1894) 1895. 1:641-47.
- Mather, William Williams.** Annual Report of First Geological District. Assembly doc. 1837, no.161, p.61-95 (ed. 2, p.63-97); 1838, no.200, p.121-84; 1839, no. 275, p.69-199; 1840, no.50, p.209-58; 1841, no.150, p.59-112.
- Geology of New York, pt1, Comprising the Geology of the First Geological District. 1843. 37+653p. 46pl. sq. Q.
- Meek, F. B.** Descriptions of New Organic Remains from the Cretaceous Rocks of Vancouver's Island. Alb. Inst. Trans. 1858-64. 4:37-49.
- & **Hayden, M. D.** Descriptions of New Organic Remains from North-eastern Kansas, indicating the Existence of Permian Rocks in that Territory. Alb. Inst. Trans. 1858-64. 4:73-88.
Read before the Albany Institute, Mar. 2, 1858.
- Meriam, E.** Description of the Means employed to Remove the Rocks at Hurlgate by Submarine Engineering. Mus. rep. 5 (for 1851) 1852. p.59-64. illus.
- Merriam, Clinton L.** Meteorological Report for 1868. Mus. rep. 22 (for 1868) 1869. p.107-8.
- Merrill, Frederick J. H.** Quaternary Geology of the Hudson River Valley. Geol. rep. 10 (for 1890) 1891. p.103-9.
Also published separately. Am. Jour. Sci. ser. 3. 41:460-66.
- Report on the Work of the State Museum, by assistant director. Mus. rep. 45 (for 1891) 1892. p.14; 46 (for 1892) 1893. p.12-14; 47 (for 1893) 1894. p.21-30.
- Salt and Gypsum Industries of New York. Mus. bul. 11. 1893. 89p. 12pl. (phot.) maps. 11tab.
Map of New York showing salt wells and mines and gypsum quarries, 38 x 55cm.
Map of western salt field of New York, 52.5 x 32.5cm.
Chart of well sections.
- Abstract. Mus. bul. 15. 1895. p.545-51. *Same*, Mus. rep. 48 (for 1894) 1895. 1:545-51 (2d paging).
- Reports as Director of Museum. Mus. rep. 48-52 (for 1894-98) 1895-1900.

- Mineral Resources of New York State. Mus. bul. 15. 1895. p.359-595. maps. *Same*, Mus. rep. 48 (for 1894) 1895. 1:359-595 (2d paging). maps. Economic and geologic map of New York State, 22 x 85cm. Geologic map of a part of southeastern New York, 58 x 66cm.
- Road Materials and Road Building in New York. Mus. bul. 17. 1897. p.87-134, 14pl. (phot.) maps. *Same*, Mus. rep. 50 (for 1896) 1898. 1:87-134 (2d paging). 14pl. (phot.) maps. Including directory of quarries. Map of New York showing distribution of rocks most useful for road metal, 34 x 44cm. Map of New York showing location of quarries of building stone and road metal, 68 x 92cm.
- Guide to the Study of the Geological Collections of the New York State Museum. Mus. bul. 19. 1898. p.105-262, 119pl. (phot.) map. *Same*, Mus. rep. 51 (for 1897) 1899. 1:105-262, 119pl. (phot.) map. Relief map of the State of New York showing the boundaries of the geologic systems, 33 x 43cm.
- Geology of the Crystalline Rocks of Southeastern New York. Mus. rep. 50 (for 1896) 1898. 1:21-31 (1st paging).
- Origin of the Serpentine in the Vicinity of New York. Mus. rep. 50 (for 1896) 1898. 1:32-44 (1st paging). Spl. (phot.)
- Reports as Geologist and Director of Museum. Geol. rep. 19-20 (for 1899-1900) 1901-2. Mus. rep. 53-54 (for 1899-1900) 1901-2.
- Directory of Natural History Museums in United States and Canada. Mus. bul. 62. *In press*.
- Geologic Map of the State of New York. Mus. bul. 56. 1902. 42p. 2 maps. table.
- Economic Geology. Mus. handbook 17. *In preparation*.
- Miller, Gerrit S. jr.** Preliminary List of New York Mammals. Mus. bul. 29. 1899. p.271-390. *Same*, Mus. rep. 53 (for 1899) 1901. 1:271-390. Contains a bibliography.
- Key to the Land Mammals of Northeastern North America. Mus. bul. 38. 1900. p.59-160. *Same*, Mus. rep. 54 (for 1900) 1902. 3:59-160.
- Morgan, Lewis H.** Communication concerning the Indian Collection. Mus. rep. 2 (for 1848) 1849. p.81-83.
- Report on Articles given to the Indian Collection. Mus. rep. 2 (for 1848) 1849. p.84-91; 3 *rev. ed.* (for 1849) 1850. p.63-95. illus. 18pl.
- Schedule of Articles obtained from Indians. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.59-62; 5 (for 1851) 1852. p.51-54.
- Report on the Fabrics, Inventions, Implements and Utensils of the Iroquois. Mus. rep. 5 (for 1851) 1852. p.67-117, illus. 20pl.
- Stone and Bone Implements of the Arickarees. Mus. rep. 21 (for 1867) 1871. p.25-46. 6pl.
- Morse, James O.** Great Greywacke Region of the State of New York. Alb. Inst. Trans. 1829. 1:84-85. Read before the Albany Institute, Oct. 23, 1829.
- Murray, David.** Petroleum, its History and Properties. Alb. Inst. Trans. 1858-64. 4:149-66. Read before the Albany Institute, Dec. 16, 1862.
- Catalogue of the published Works of James Hall, 1836-1882. Mus. rep. 36 (for 1882) 1883. p.79-94.
- with supplementary list to 1888. Mus. rep. 42 (for 1888) 1889. p.75-97. Continued to 1894 by J. M. Clarke in *American Geologist*. Mar. 1899. 23:149-68.
- Nason, Frank L.** Some New York Minerals and their Localities. Mus. bul. 4. 1888. 19p. 1pl. (phot.)
- Economic Geology of Albany County. Geol. rep. 13 (for 1893) 1894. p.263-87. pl. (phot.) *Same*, Mus. rep. 47 (for 1893) 1894. p.457-81. pl. (phot.) Also published separately.
- Economic Geology of Ulster County. Geol. rep. 13 (for 1893) 1894. p.373-406. pl. (phot.) *Same*, Mus. rep. 47 (for 1893) 1894. p.567-600. pl. (phot.) Also published separately.

- Needham, James G., & Betten, Cornelius.** Aquatic Insects in the Adirondacks. Mus. bul. 47. 1901. p.383-612. illus. 6pl. (lith.) 30pl. (phot.) *Same*, Mus. rep. 54 (for 1900) 1902. 4:383-612. illus. 6pl. (lith.) 30pl. (phot.)
 — & others. Aquatic Insects in New York State. Mus. bul. 68. *In press.*
- Nevius, J. Nelson.** Preliminary List of Public Geological and Mineralogical Collections in the United States and Canada, prepared under the direction of F. J. H. Merrill. Mus. rep. 50 (for 1896) 1898. 1:45-74 (1st paging).
- Tale Industry of St Lawrence County, New York. Mus. rep. 51 (for 1897) 1899. 1:r119-27. pl. (phot.)
- History of Cayuga Lake Valley. Mus. rep. 51 (for 1897) 1899. 1:r129-53. pl. (phot.)
 Contains a bibliography.
- A Fossil Plant from Orange County. Mus. rep. 52 (for 1898) 1900. 1:r79-81. pl. (phot.)
- The Sacandaga Mining and Milling Co. and the Sutphen Process. Mus. rep. 52 (for 1898) 1900. 1:r82-87. pl. (phot.)
- Emery Mines of Westchester County. Geol. rep. 19 (for 1899) 1901. p.r151-54. pl. (phot.) *Same*, Mus. rep. 53 (for 1899) 1901. 1:r151-54. pl. (phot.)
- Roofing Slate Quarries of Washington County. Geol. rep. 19 (for 1899) 1901. pl. (phot.) p.r135-50. *Same*, Mus. rep. 53 (for 1899) 1901. pl. (phot.) 1:r135-50.
- Newland, David H., Kemp, J. F. &** Preliminary Report on the Geology of Washington, Warren and Parts of Essex and Hamilton Counties. Geol. rep. 17 (for 1897) 1899. p.499-553. pl. (phot.) maps (uncolored). *Same*, Mus. rep. 51 (for 1897) 1899. 2:499-553. pl. (phot.) maps (uncolored).
 Also published separately.
- **Kemp, J. F., Hill, B. F. &** Preliminary Report on the Geology of Hamilton, Warren and Washington Counties. Geol. rep. 18 (for 1898) 1899. p.137-62. maps (uncolored). *Same*, Mus. rep. 52 (for 1898) 1900. 2:137-62. maps (uncolored).
 Also published separately.
- **Smyth, C. H. jr &** Report on Progress made during 1898 in Mapping Crystalline Rocks of Western Adirondack Region. Geol. rep. 18 (for 1898) 1899. p.129-35. *Same*, Mus. rep. 52 (for 1898) 1900. 2:129-35.
 Also published separately.
- Newton, E. H.** Catalogue of the Minerals of Washington County. Ag. Soc. Trans. 9 (for 1849) 1850. p.857-62.
- Norton, John P.** Elements of Scientific Agriculture. Ag. Soc. Trans. 9 (for 1849) 1850. p.602-735.
 p.728-35 on applications of geology to agriculture.
- Orton, Edward.** Petroleum and Natural Gas in New York. Mus. bul. 30. 1899. p.395-526. maps. *Same*, Mus. rep. 53 (for 1899) 1901. 1:395-526. maps.
 Map of Oswego county and Onondaga county, 23 x 13cm.
 Lake shore belt of Chautauqua county, 22 x 7cm.
 Sketch map of central New York, 14 x 9cm.
- Owen, David Dale.** Regarding Human Footprints in Solid Limestone. Mus. rep. 9 (for 1855) 1856. p.53-59.
 Abstract of paper originally published in Amer. Jour. of Sci. 1842. 43:14-32
- Paine, John A. jr.** Catalogue of Plants found in Oneida County and Vicinity. Mus. rep. 18 (for 1864) 1865. p.53-192.
- Parsons, Arthur L.** Recent Developments in the Gypsum Industry in New York State. Geol. rep. 20 (for 1900) 1902. p.r177-83. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r177-83.
 Also published separately.
- Paulmier, Frederick C.** Lizards, Tortoises and Batrachians of New York. Mus. bul. 51. 1902. p.389-409.
 — The Edible Crab. Mus. rep. 55 (for 1901). *In press.*

- Peale, A. C.** Mineral Springs of New York: analyses. Mus. bul. 15. 1895. p.563-78. *Same*, Mus. rep. 48 (for 1894) 1895. 1:563-78 (2d paging).
- Peck, Charles H.** Catalogue of Mosses Presented to the State of New York by C. H. Peck. Mus. rep. 18 (for 1864) 1865. p.193-96.
- List of Mosses of the State of New York. Mus. rep. 19 (for 1865) 1866. p.42-70.
- Facts and Observations touching the Flora of the State of New York. Mus. rep. 20 (for 1866) 1867. p.403-10.
- Fungi. Alb. Inst. Trans. 1870. 6:209-26.
Read before the Albany Institute, Feb. 15, 1870.
- Report on Botany, 1871-73. Alb. Inst. Trans. 1872. 7:35-43, 186-204; 1876. 8:152-66.
- Reports as Botanist. Mus. rep. 21-54 (for 1867-1901) 1869-1902.
Also published separately.
For page references and contents, see List of publications, p.263.
Index to rep. 22-38 in Mus. rep. 41, p.94-122.
39-48 50, 1:143-59.
- Page references in above mentioned indexes are given to botanist's edition.
- Synopsis of New York Uncinulae. Alb. Inst. Trans. 1872. 7:213-17.
1pl.
Communicated Feb. 20, 1872.
- The Black Spruce. Alb. Inst. Trans. 1876. 8:283-301.
Read before the Albany Institute, May 4, 1875.
- United States Species of Lycopodon. Alb. Inst. Trans. 1879. 9:285-318.
Read before the Albany Institute, Feb. 4, 1879.
- The Mosses of Caledonia Creek. Mus. rep. 32 (for 1878) 1879. p.73-74.
From the 10th report of the New York Commissioners of Fisheries.
- Fertilization of Flowers. Alb. Inst. Trans. 1887. 11:155-68.
Read before the Albany Institute, Ap. 15, 1884.
- Contributions to the Botany of the State of New York. Mus. bul. 2. 1887. 66p. 2pl. (lith.)
- Boleti of the United States. Mus. bul. 8. 1889. p.71-166.
- Edible Wild Fruits of New York. Alb. Inst. Trans. 1893. 12:83-102.
Read before the Albany Institute, Ap. 16, 1889.
- Weeds. Alb. Inst. Trans. 1893. 12:251-65.
Read before the Albany Institute, Ap. 7, 1891.
- Plants of North Elba. Mus. bul. 28. 1899. p.65-266. map. *Same*, Mus. rep. 53 (for 1899) 1901. 1:65-266. map.
Map of North Elba, Essex county (uncolored) 12 x 16cm.
- Report of the State Botanist on Edible Fungi of New York. 1895-99. Mus. mem. 4. 1900. p.129-234. 25pl. *Same*, Mus. rep. 53 (for 1899) 1901. 2:129-234. 25pl.
This consists partly of revised descriptions and illustrations of edible fungi reported in the 49th, 51st and 52d reports of the state botanist. For earlier reports on this subject, see Mus. rep. 48, v.1 and v.3.
- Peters, C. H. F.** Longitude of the Western Boundary Line of the State of New York. Mus. rep. 20 *rev. ed.* (for 1866) 1870. p.143-57. 2pl.
- Peters, Theodore C.** Report on the Agricultural and other Resources of the State of New York. Ag. Soc. Trans. 23 (for 1863) 1864. p.234-379. maps..
- Pierrepont, W. C.** Meteorological Observations at Pierrepont Manor, N. Y. Mus. rep. 20 (for 1866) 1867. p.124.
- Pratt, Daniel J.** Report of the Regents on the Boundaries of New York. 1874-84. 2v.
- Prosser, Charles S.** The Devonian Section of Central New York along the Unadilla River. Geol. rep. 12 (for 1892) 1893. p.110-42. *Same*, Mus. rep. 46 (for 1892) 1893. p.256-88.
Also published separately.

- Classification and Distribution of the Hamilton and Chemung Series of Central and Eastern New York. Pt1, Geol. rep. 15 (for 1895) 1897. p.12-13, 83-222. pl. (phot.) map. Pt2, Geol. rep. 17 (for 1897) 1899. p.65-315. pl. (phot.) map. *Same*, Pt1, Mus. rep. 49 (for 1895) 1898. 2:12-13, 83-222. pl. (phot.) map. Pt2, Mus. rep. 51 (for 1897) 1899. 2:65-315. pl. (phot.) map.
Also published separately.
Pt1, Geologic map of parts of Chenango, Madison, Otsego, Schoharie and Albany counties, 58 x 33.5cm.
Pt2, Map showing distribution of middle and upper Devonian rocks in central-eastern New York, 61 x 38.5cm. Map of Delaware county, by W. L. Fisher, 34 x 32cm.
- & Cumings, E. R. Sections and Thickness of the Lower Silurian Formations on West Canada Creek and in the Mohawk Valley. Geol. rep. 15 (for 1895) 1897. p.23-24, 615-59. pl. (phot.) *Same*, Mus. rep. 49 (for 1895) 1898. 2:23-24, 615-59. pl. (phot.)
Also published separately.
- & Rowe, R. B. Stratigraphic Geology of the Eastern Helderbergs. Geol. rep. 17 (for 1897) 1899. p.329-54. pl. (phot.) *Same*, Mus. rep. 51 (for 1897) 1899. 2:329-54. pl. (phot.)
Also published separately.
- Sections of the Formations along the Northern End of the Helderberg Plateau. Geol. rep. 18 (for 1898) 1899. p.51-72. pl. (phot.) *Same*, Mus. rep. 52 (for 1898) 1900. 2:51-72. pl. (phot.)
Also published separately.
- Notes on the Stratigraphy of the Mohawk Valley and Saratoga County. Mus. bul. 34. 1900. p.469-82. 6pl. (phot.) map. *Same*, Mus. rep. 54 (for 1900) 1902. 1:469-82. 6pl. (phot.) map.
Geologic map of Amsterdam quadrangle, 44 x 32.5cm.
- Randall, F. A.** Preliminary Report on the Geology of Cattaraugus and Chautauqua Counties. Geol. rep. 13 (for 1893) 1894. p.517-27. diagrams. *Same*, Mus. rep. 47 (for 1893) 1894. p.711-21. diagrams.
Also published separately.
- Ries, Heinrich.** Quaternary Deposits of the Hudson River Valley between Croton and Albany, with notes on the brick clays and the manufacture of brick. Geol. rep. 10 (for 1890) 1891. p.110-55.
Also published separately, with Merrill, F. J. H. Quaternary Geology of Hudson River Valley.
- Clay Industries of New York. Mus. bul. 12. 1895. p.93-262. 2pl. (phot.) map. *Same*, Mus. rep. 48 (for 1894) 1895. 1:93-262 (2d paging). 2pl. (phot.) map.
Map of New York showing location of clay deposits and manufactories, 59 x 67cm.
- *abridged* by F. J. H. Merrill. Mus. bul. 15. 1895. p.494-501. *Same*, Mus. rep. 48 (for 1894) 1895. 1:494-501 (2d paging).
- *abridged* by F. J. H. Merrill. Mus. bul. 19. 1898. p.208-13. *Same*, Mus. rep. 51 (for 1897) 1899. 1:208-13.
- Road Metal; *revised* by F. J. H. Merrill. Mus. bul. 15. 1895. p.448-50. *Same*, Mus. rep. 48 (for 1894) 1895. 1:448-50 (2d paging).
- Geology of Orange County. Geol. rep. 15 (for 1895) 1897. p.18-19, 393-475. pl. (phot.) maps. *Same*, Mus. rep. 49 (for 1895) 1898. 2:18-19, 393-475. pl. (phot.) maps.
Also published separately, without maps.
Geologic map (colored) 44 x 34cm.
Economic and sectional maps (uncolored).
Contains a bibliography.
- Physical Tests of the Devonian Shales of New York State to determine their Value for the Manufacture of Clay Products. Geol. rep. 15. (for 1895) 1897. p.673-98. *Same*, Mus. rep. 49 (for 1895) 1898. 2:673-98.
Also published separately.
- Limestones of New York and their Economic Value. Geol. rep. 17 (for 1897) 1899. p.355-467. *Same*, Mus. rep. 51 (for 1897) 1899. 2:355-467.
Also published separately.
- Notes on a Trip from Port Jervis to Rondout. Mus. rep. 52 (for 1898) 1900. 1:88-91.

- Clays of New York, their Properties and Uses. Mus. bul. 35. 1900. p.489-944. 140pl. (phot.) map. *Same*, Mus. rep. 54 (for 1900) 1902. 2:489-944. 140pl. (phot.) map.
Mus. bul. 12. 1895 revised and enlarged.
Map of New York State showing clay and shale deposits, and manufactories, 93.5 x 69.5cm.
Contains a bibliography.
- Lime and Cement Industries of New York. Mus. bul. 44. 1901. p.639-968. pl. (phot.) maps. *Same*, Mus. rep. 54 (for 1900) 1902. 3:639-968. pl. (phot.) maps.
Map of New York State showing location of limestone quarries and marl deposits and manufactories of natural and Portland cement, 72x74cm (uncolored). Map of New York State showing distribution of limestones, 44.5x35cm (uncolored).
- Uses of Peat and its Occurrence in New York. Geol. rep. 21 (for 1901). *In press*.
Contains a bibliography.
- Roberts, Algernon S.** On the Advantages of Geology to Agriculture. Ag. Soc. Trans. 8 (for 1848) 1849. p.362-65.
- Root, Oren.** On Reorganization of State Cabinet. Mus. rep. 19 (for 1865) 1866. p.18-19.
- Rowe, Richard B., Prosser, C. S. &** Stratigraphic Geology of the Eastern Helderbergs. Geol. rep. 17 (for 1897) 1899. p.329-54. pl. (phot.) *Same*, Mus. rep. 51 (for 1897) 1899. 1:329-54. pl. (phot.)
Also published separately.
- Ruedemann, Rudolf.** Development and Mode of Growth of the Genus *Diplograptus*, McCoy. Geol. rep. 14 (for 1894) 1895. p.15, 217-49. 5pl. *Same*, Mus. rep. 48 (for 1894) 1895. 2:15, 217-49. 5pl.
- Note on the Discovery of a Sessile *Conularia*. Geol. rep. 15 (for 1895) 1897. p.24, 699-728. 4pl. *Same*, Mus. rep. 49 (for 1895) 1898. 2:24, 699-728. 4pl.
Originally published in part in American geologist, Mar. 1896 and Aug. 1896.
- Hudson River Beds near Albany and their Taxonomic Equivalents. Mus. bul. 42. 1901. p.485-596. 2pl. map. *Same*, Mus. rep. 54 (for 1900) 1902. 3:485-596. 2pl. map.
Stratigraphic map showing the subdivisions of the Hudson river beds in parts of Albany and Rensselaer counties, 51.5 x 24.5cm.
Contains a bibliography.
- Trenton Conglomerate of Rysedorph Hill, Rensselaer Co. N. Y. and its Fauna. Mus. bul. 49. 1901. p.3-114. 7pl.
- Luther, D. D., Clarke, J. M. &. Contact Lines of Upper Siluric Formations on the Brockport and Medina Quadrangles. Mus. bul. 52. 1902. p.517-23.
- Graptolite (Levis) Facies of the Beekmantown Formation in Rensselaer County, N. Y. Mus. bul. 52. 1902. p.546-75.
- Mode of Growth and Development of *Goniograptus thureau* McCoy. Mus. bul. 52. 1902. p.576-92.
- Clarke, J. M. &. The Guelph Formation and Fauna in Western New York. Mus. mem. 5. *In press*.
- Cambric *Dictyonema* Fauna in the Slate belt of Eastern New York. Pal. rep. (for 1902). *In press*.
- Salisbury, James H.** Analysis of a Specimen of Hematitic Iron Ore. Mus. rep. 4 (for 1850) 1851. p.111.
- Sarle, Clifton J.** A New Eurypterid Fauna from the base of the Salina of Western New York. Pal. rep. (for 1902). *In press*.
- oSchuchert, Charles.** List of the Fossils occurring in the Oriskany Sandstone of Maryland, New York and Ontario. Geol. rep. 8 (for 1888) 1889. p.50-54. *Same*, Mus. rep. 42 (for 1888) 1889. p.396-400.
- On *Syringothyris*, Winchell and its American Species. Geol. rep. 9 (for 1889) 1890. p.28-37. *Same*, Mus. rep. 43 (for 1889) 1890. p.230-39.

- List of Species of the American Palaeozoic Orthis, Spirifera, Spiriferina and Syringothyris. Geol. rep. 9 (for 1889) 1890. p.38-55. *Same*, Mus. rep. 43 (for 1889) 1890. p.240-57.
Also published separately.
- Ulrich, E. O. &. Palaeozoic Seas and Barriers in Eastern North America. Mus. bul. 52. 1902. p.633-63.
Also published separately.
- Scott, George G. Notes on the Marine Food Fishes of Long Island and a Biological Reconnaissance of Coldspring Harbor. Mus. rep. 54 (for 1900) 1902. 1:1214-29.
Also published separately.
- Sherzer, W. H. Platycnemic Man in New York. Geol. rep. 13 (for 1893) 1894. p.661-83. *Same*, Mus. rep. 47 (for 1893) 1894. p.853-77.
Also published separately.
- a Simpson, George B. Anatomy and Physiology of Anodonta fluviatilis. Mus. rep. 35 (for 1881) 1884. p.169-91. pl.3-13.
— Anatomy of the Snail. Mus. rep. 39 (for 1885) 1886. p.127, pl.3.
- Hall, James, &. Corals and Bryozoa of the Lower and Upper Helderberg and Hamilton Groups. Pal. N. Y. 1887. v.6, 298p. 67pl.
- Discussion of the Different Genera of Fenestellidae. Geol. rep. 13 (for 1893) 1894. p.685-727. illus. *Same*, Mus. rep. 47 (for 1893) 1894. p.879-921. illus.
Also published separately.
- Glossary and Explanations of Specific Names of Bryozoa and Corals described in v.6, Palaeontology of New York and other reports. Geol. rep. 13 (for 1893) 1894. p.729-47. *Same*, Mus. rep. 47 (for 1893) 1894. p.923-41.
Also published separately.
- Handbook of the Genera of the North American Palaeozoic Bryozoa, with an introduction upon the structure of living species. Geol. rep. 14 (for 1894) 1895. p.18-19, 403-669. illus. 30pl. *Same*, Mus. rep. 48 (for 1894) 1895. 2:18-19, 403-669. illus. 30pl.
Also published separately.
Contains a bibliography.
- Preliminary Descriptions of New Genera of Paleozoic Rugose Corals. Mus. bul. 39. 1900. p.199-222. *Same*, Mus. rep. 54 (for 1900) 1902. 3:199-222.
- Anatomy and Physiology of Polygyra albolabris and Limax maximus and Embryology of Limax maximus. Mus. bul. 40. 1901. p.237-314. 28pl. (lith.) 1pl. (phot.) *Same*, Mus. rep. 54 (for 1900) 1902. 3:237-314. 28pl. (lith.) 1pl. (phot.)
- Smock, John C. Geological Reconnaissance in the Crystalline Rock Region; Dutchess, Putnam and Westchester Counties, New York. Mus. rep. 39 (for 1885) 1886. p.165-85. map.
Map of Archaean areas of Highlands (uncolored) 11 x 18.5cm.
- Report of Field Work for 1886 (building stones). Mus. rep. 40 (for 1886) 1887. p.35-36.
- Building Stone in the State of New York. Mus. bul. 3. 1888. 152p.
— *revised and enlarged*. Mus. bul. 10. 1890. p.191-395. map. tab.
Map of New York showing location of quarries, 58 x 60cm.
- First Report on the Iron Mines and Iron-ore Districts in the State of New York. Mus. bul. 7. 1889. 70p. map.
Map of New York showing location of iron mines, 58 x 60cm.
- *revised* by Merrill. Mus. bul. 15. 1895. p.529-42. *Same*, Mus. rep. 48 (for 1894) 1895. 1:529-42 (2d paging).
- Mus. bul. 19. 1898. p.214-22. *Same*, Mus. rep. 51 (for 1897) 1899. 1:214-22.
- Report of the Assistant in Charge of State Museum. Mus. rep. 42 (for (1888) 1889. p.37-49; 43 (for 1889) 1890. p.11-20; 44 (for 1890) 1892. p.17-21.

- Geology and Geographic Distribution of Building Stone in New York; revised by F. J. H. Merrill. Mus. bul. 15. 1895. p.372-448. *Same*, Mus. rep. 48 (for 1894) 1895. 1:372-448 (2d paging).
- Mus. bul. 19. 1898. p.181-204. *Same*, Mus. rep. 51 (for 1897) 1899. 1:181-204.
- Smyth, Charles H. jr.** Report on a Preliminary Examination of the General and Economic Geology of Four Townships in St Lawrence and Jefferson Counties, New York. Geol. rep. 13 (for 1893) 1894. p.491-515. *Same*, Mus. rep. 47 (for 1893) 1894. p.685-709.
Also published separately.
- Report on the Crystalline Rocks of St Lawrence County. Geol. rep. 15 (for 1895) 1897. p.20-21, 477-97. *Same*, Mus. rep. 49 (for 1895) 1898. 2:20-21, 477-97.
Also published separately.
- Report on the Talc Industry of St Lawrence County. Geol. rep. 15 for 1895. 1897. p.20, 661-71. *Same*, Mus. rep. 49 (for 1895) 1898. 2:20, 661-71.
Also published separately.
- Report on Crystalline Rocks of the Western Adirondack Regions. Geol. rep. 17 (for 1897) 1899. p.469-97. pl. (phot.) *Same*, Mus. rep. 51 (for 1897) 1899. 2:469-97. pl. (phot.)
Also published separately.
- & **Newland, D. H.** Report on Progress made during 1898 in Mapping Crystalline Rocks of Western Adirondack Region. Geol. rep. 18 (for 1898) 1899. p.129-35. *Same*, Mus. rep. 52 (for 1898) 1900. 2:129-35.
Also published separately.
- Geology of the Crystalline Rocks in the Vicinity of the St Lawrence River. Geol. rep. 19 (for 1899) 1901. p.83-104. pl. (phot.) map. *Same*, Mus. rep. 53 (for 1899) 1901. 1:83-104. pl. (phot.) map.
Geologic map of portions of St Lawrence and Jefferson counties, 26.5 x 16.5cm.
- Speyer, A.** On *Cucullia intermedia nov. spec.* and *C. lucifuga* W. V. Mus. rep. 23 (for 1869) 1873. p.217-22.
From the Stettiner Entomologische Zeitung. 1870, v.31, no.10-12.
- Stevens, George T.** Flora of the Adirondacks. Alb. Inst. Trans. 1870. 6:67-82.
Read before the Albany Institute, Feb. 1868.
- Report on Zoology. Alb. Inst. Trans. 1872. 7:132-43.
Read before the Albany Institute, Mar. 7, 1871.
- Stoller, James H.** Two New Land Isopods. Mus. rep. 54 (for 1900) 1902. 1:208-13.
Also published separately.
- Tarr, Ralph S.** Laboratory Methods of Instruction in Geology and Physical Geography. Regents rep. 108 (for 1894) 1895. 2:992-1011.
Published as an appendix to University Convocation. Proceedings. 1895.
- Thomas, J. J.** On Reorganization of State Cabinet. Mus. rep. 19 (for 1865) 1866. p.26.
- Torrey, John.** Report on Botanical Department of Survey. Assembly doc. 1837, no.161, p.9-10 (ed. 2, p.11-12); 1840, no.50, p.113-97.
- Flora of the State of New York. 1843. 2v. il. pl. sq. Q.
v. 1 12+484p. 72pl. 1843.
300 copies with hand-colored plates.
v. 2 572p. 89pl. 1843.
300 copies with hand-colored plates.
- Catalogue of Plants of the State of New York of which Specimens are preserved in the Cabinet at Albany. Mus. rep. 2 (for 1848) 1849. p.41-64.
- Trembley, J. B.** Annual Meteorological Synopsis for the Year 1863. Mus. rep. 17 (for 1863) 1864. p.46-49.
- Meteorological Synopsis for 1864, Toledo, O. Mus. rep. 18 (for 1864) 1865. p.207-9.
- Meteorological Observations made at Toledo, O. Mus. rep. 20 (for 1866) 1867. p.107-21.

- Ulrich, E. O. & Schuchert, Charles.** Paleozoic Seas and Barriers in Eastern North America. Mus. bul. 52. 1902. p.633-63.
Also published separately.
- Van Ingen, D. A.** Petroleum. Mus. bul. 15. 1895. p.558-60. *Same*, Mus. rep. 48 (for 1894) 1895. 1:558-60 (2d paging).
- van Ingen, Gilbert.** Potsdam Sandstone of the Lake Champlain Basin. Mus. bul. 52. 1902. p.529-45.
Also published separately.
- Vanuxem, Lardner.** Annual Report on Geological Survey of the Third District. Assembly doc. 1838, no.200, p.253-86; 1839, no.275, p.241-85; 1840, no.50, p.355-88; 1841, no.150, p.137-47.
- Annual Report on the Geological Survey of the Fourth District. Assembly doc. 1837, no.161, p.187-212 (ed. 2, p.189-214).
- Geology of New York, pt3, comprising the Survey of the Third Geological District. 1842. 306p. sq. Q.
- Veeder, M. A.** Uses and Relations of the Study of Botany. Regents rep. 91 (for 1877) 1878. p.439-42.
Read before the University Convocation, July 11, 1877.
- Walcott, Charles D.** Preliminary Notice of the Discovery of the Remains of the Natatory and Branchial Appendages of Trilobites. Mus. rep. 28 (for 1874) 1879. p.89-92.
- Descriptions of New Species of Fossils from the Trenton Limestone. Mus. rep. 28 (for 1874) 1879. p.93-97.
- Notes on Some Sections of Trilobites from the Trenton Limestone. Mus. rep. 31 (for 1877) 1879. p.61-63. 1pl.
Published in advance, 1877.
- Note upon the Legs of Trilobites. Mus. rep. 31 (for 1877) 1879. p.64. 1pl.
- Note on the Eggs of the Trilobite. Mus. rep. 31 (for 1877) 1879. p.66-67.
Published in advance, 1877.
- Descriptions of New Species of Fossils from the Chazy and Trenton Limestones. Mus. rep. 31 (for 1877) 1879. p.68-71.
Published in advance, 1877.
- Description of New Species of Fossils from the Calciferous Formation. Mus. rep. 32 (for 1878) 1879. p.129-31.
- Utica Slate and Related Formations of the Same Geological Horizon. Alb. Inst. Trans. 1883. 10:1-17.
Read before the Albany Institute, Mar. 18, 1879.
- Fossils of the Utica Slate. Alb. Inst. Trans. 1883. 10:18-38.
Read before the Albany Institute, Mar. 18, 1879.
- Descriptions of New Species of Fossils from the Trenton Group of New York. Mus. rep. 35 (for 1881) 1884. p.207-14. pl.17.
- Ward, Henry A.** Wadsworth Gallery of Casts of Fossil Animals. Mus. rep. 18 (for 1864) 1865. p.17-52. illus.
- Watson, Thomas Leonard.** Some Higher Levels in the Postglacial Development of the Finger Lakes of New York State. Mus. rep. 51 (for 1897) 1899. 1:155-117. pl. (phot.) maps.
A thesis presented to the faculty of Cornell University for the degree of doctor of philosophy.
Maps showing extent of glacial lakes.
Contains a bibliography.
- Watson, Winslow C.** A General View and Agricultural Survey of the County of Essex. Ag. Soc. Trans. 12 (for 1852) 1853. p.649-898.
- Supplement. Ag. Soc. Trans. 13 (for 1853) 1854. p.699-741.
- Webster, H. E.** Annelida chaetopoda of the Virginian Coast. Alb. Inst. Trans. 1879. 9:202-69.
Read before the Albany Institute, Oct. 15, 1878.
- Annelida chaetopoda of New Jersey. Mus. rep. 32 (for 1878) 1879. p.101-28; reprint 39 (for 1885) 1886. p.128-59, pl.4-10.

- Webster, Matthew Henry.** Table of Mean Temperatures, for the Last Ten Years, deduced from the Reports of the Regents of the University. Alb. Inst. Trans. 1883-52. 2:221-23.
- White, David.** Description of a Fossil Alga from the Chemung of New York, with Remarks on the Genus *Haliserites*. Mus. bul. 52. 1902. p.593-605
Also published separately.
- White, Theodore G.** Report on the Relations of the Ordovician and Eo-Silurian Rocks in Portions of Herkimer, Oneida and Lewis Counties. Mus. rep. 51 (for 1897) 1899. 1:r21-54. pl. (phot.) maps.
Map of the vicinity of Frankfort hill, 31.5 x 16.5cm.
Map of the Precambrian border in Oneida and Lewis counties, 49.5 x 16cm.
- Whitfield, Robert P.** Observations on the Internal Appendages of the Genus *Atrypa*, with a notice of the discovery of a loop connecting the spiral cones. Mus. rep. 20 (for 1866) 1867. p.141-44.
- **Hall, James &.** Description of New Species of Fossils from the Vicinity of Louisville, Ky., and the Falls of the Ohio. Mus. rep. 24 (for 1870) 1872. p.181-200a. 5pl. in 27th report.
- — Remarks on Some Peculiar Impressions in Sandstone of the Chemung Group, New York. Mus. rep. 24 (for 1870) 1872. p.201-4.
- — Descriptions of New Species of Fossils from the Devonian Rocks of Iowa. Mus. rep. 23 (for 1869) 1873. p.223-39. pl.9-12.
- — Notice of Three New Species of Fossil Shells from the Devonian of Ohio. Mus. rep. 23 (for 1869) 1873. p.240-41.
- — Notice of Two New Species of Fossil Shells from the Potsdam Sandstone of New York. Mus. rep. 23 (for 1869) 1873. p.241-42.
- Whitlock, Herbert P.** Guide to the Mineralogic Collections of the New York State Museum. Mus. bul. 58. 1902. 147p. illus. 39pl. (phot.) 11 models.
- Williams, Henry S.** Palaeontological Evidences as bearing upon the Theory of Evolution. Regents rep. 95 (for 1881) 1882. p.319-27.
Read before the University Convocation, July 13, 1881.
- Williams, S. G.** Note on the Lower Helderberg Rocks of Cayuga Lake. Geol. rep. 6 (for 1886) 1887. p.10-12.
- Tully Limestone, its Distribution and its Known Fossils. Geol. rep. 6 (for 1886) 1887. p.13-29. map.
Map showing geographic distribution of Tully limestone in central New York, 37.5 x 19cm.
- Wilson, W. D.** Local Climatology. Mus. rep. 20 (for 1866) 1867. p.63-106.
- Winchell, Alexander.** On Reorganization of State Cabinet. Mus. rep. 19 (for 1865) 1866. p.13-18.
- Geology and culture. Regents rep. 102 (for 1888) 1889. p.69-85.
Read before the University Convocation, July 3, 1888.
- Winkler, Charles.** Meteorological Observations at Milwaukee, Wis. Mus. rep. 20 (for 1866) 1867. p.122-23.
- Wood, Elvira.** Marcellus (Stafford) Limestones of Lancaster, Erie Co. N. Y. Mus. bul. 49. 1901. p.139-81. pl.9.
- Woodworth, Jay Backus.** Pleistocene Geology of Portions of Nassau County and Borough of Queens. Mus. bul. 48. 1901. p.617-70. pl. (phot.) maps. *Same*, Mus. rep. 54 (for 1900) 1902. 4:617-70, pl. (phot.) maps.
Sketch map of a part of Long Island, 22.5 x 18.5cm.
Map of the Pleistocene geology of the Oyster Bay and Hempstead quadrangles on Long Island, 71 x 35cm.
- The Northumberland Volcanic Plug. Geol. rep. 21 (for 1901). *In press*.
- On the Sederbury Impression of the Animal whose Trail is known as Climactichnites. Pal. rep. (for 1902). *In press*.
- Wright, Berlin H.** Notes on the Geology of Yates County, N. Y. Mus. rep. 35 (for 1881) 1884. p.195-206. pl.15-16. map 24x21cm. (pl.16A).
- Wright, S. Hart.** The Aboriginal Work on Bluff Point, Yates County, N. Y. Mus. rep. 35 (for 1881) 1884. p.193-94. pl.14.
- Young, D. B.** List of Coleoptera taken at Newport, Herkimer co., N. Y. Ent. rep. 18 (for 1902). Mus. bul. 64. p.153-61. *In press*.

SUBJECT INDEX

This is mainly an index to geologic, mineralogic and paleontologic publications, including papers in administrative reports of the museum. For index to Entomologist's reports 1-13, *see* Mus. bul. 24. For index to Botanist's reports 22-38, *see* Mus. rep. 41, p.94-122; reports 39-48, *see* Mus. rep. 50, 1:143-59.

Descriptions of rock formations are indexed; also subjects relating to economic geology, names of minerals, names of classes of animals and fossils, ordinal and English names of insects and generic names of plants. A special index to genera and species of fossils follows this.

Geologic formation names are indexed under terms used in the text followed by synonyms in curves, with *See also* references to synonyms and related formations at the end of entries on a subject. The name of the geologist first using the term is indicated by a footnote.

As a rule geographic divisions smaller than counties are not included in the index; there are, however, a few exceptions.

Unless otherwise specified, pl. refers to lithographic plates only.

For other explanatory matter, and list of abbreviations, *see* p.240.

Aborigines. Cheney. Illustrations of the Ancient Monuments in Western New York. Mus. rep. 13 (for 1859) 1860. p.37-52. 24pl. map.

Wright. Aboriginal Work on Bluff Point, Yates County. Mus. rep. 35 (for 1881) 1884. p.193-94. pl.14.

See also Indians.

Abrasions. Emmons. Period when, and Causes by which the Northern Rocks were abraded. Geol. rep. 2d dist. (for 1839) 1840. p.349-52.

Acadian. Clarke & Schuchert. Acadian. *See* New York series.

Merrill. Acadian. Mus. bul. 19. 1898. p.144. *Same*, Mus. rep. 51 (for 1897) 1899. 1:144.

Acephala. De Kay. Acephala. Zool. N. Y. 1843. v.5. pt5. p.166-249.

Acephala (palaeozoic). Hall. Acephala of Lower Silurian. Pal. N. Y. 1847. v.1. (various page references, *see* Table, p.325)

Hall. Acephala of Clinton Group. Pal. N. Y. 1852. 2:83-88.

Hall. Acephala of Niagara Group. Pal. N. Y. 1852. 2:282-85.

Hall. Acephala of Coralline Limestone. Pal. N. Y. 1852. 2:330-33.

Hall. Acephala from Limestone at Galt, Canada. Pal. N. Y. 1852. 2:343-44.

Achnite, *see* Acmite.

Acidulous springs, *see* Carbonated springs.

Acmite. Beck. Achnite. Min. N. Y. 1842, p.366.

Acorn weevil. Felt. Acorn Weevil. Forest, Fish and Game Com. rep. 7 (for 1901). *In press*.

Actinolite. Merrill. Actinolite. Mus. bul. 19. 1898. p.121. *Same*, Mus. rep. 51 (for 1897) 1899. 1:121.

Additions to museum collections, *see* Batrachia; Birds; Botanic collection; Crustacea; Economic geology; Entomologic collection; Fishes; Geologic collection; Historical and antiquarian collection; Library; Mammals; Mineralogic collection; Mollusca; Paleontologic collection; Reptiles; Zoologic collection.

Adirondack pass, *see* Indian pass.

- aAdirondacks.** Colvin. Winter Fauna of Mount Marcy. Alb. Inst. Trans. 1879. 9:11-26.
- Cushing. Sequence of Geologic Events. Geol. rep. 16 (for 1896) 1899. p.8-15. *Same*, Mus. rep. 50 (for 1896) 1899. 2:8-15.
- Cushing. Topography of Northern Adirondacks. Geol. rep. 18 (for 1898) 1899. p.75-89. *Same*, Mus. rep. 52 (for 1898) 1900. 2:75-89.
- Emmons. Annual Report of the Second Geological District. Assembly doc. 1837, no.161, p.97-153 (ed. 2, p.99-155); 1838, no.200, p.185-252; 1839, no.275, p.201-39; 1840, no.50, p.259-353; 1841, no.150, p.113-36.
- First report describes reconnaissance of east and west portions of Adirondacks; second report chiefly filled with details of St Lawrence and Essex counties, also many details about iron mines, and an account of his ascent of Mt Marcy; third report describes Hamilton, Clinton and Warren counties; fourth report takes up the iron ores at length, specially those at Lake Henderson; fifth report describes Hamilton, Essex and Franklin counties, and iron ores of Clinton and Franklin.
- Emmons. Elevation of Mountains and Lakes. Geol. rep. 2d dist. (for 1836) 1837. p.99-103 (ed. 2, p.101-5); (for 1837) 1838. p.243-44; (for 1839) 1840. p.326-47. Geol. N. Y. pt2. 1842. p.17. 195-212.
- Emmons. Visit to the Mountains of Essex. Geol. rep. 2d dist. (for 1837) 1838. p.240-50.
- First use of name "Adirondacks," p.242.
- Emmons. Geology of New York, pt2, comprising the survey of the second geological district. 1842. 437p.
- Felt. Aquatic Insects of the Saranac Region. Forest, Fish and Game Com. rep. 6 (for 1900) 1901. p.499-531. illus. 6pl.
- Ground Plan of Beds and Veins of Magnetic Oxide of Iron. Min. N. Y. 1842. pl.5.
- Kemp. Literature on Geology and Mineralogy. Geol. rep. 13 (for 1893) 1894. p.435-37. *Same*, Mus. rep. 47 (for 1893) 1894. p.629-31.
- Kemp & Newland. Preliminary Report on the Geology of Washington, Warren and Parts of Essex and Hamilton Counties. Geol. rep. 17 (for 1897) 1899. p.499-553. pl.(phot.) maps (uncolored). *Same*, Mus. rep. 51 (for 1897) 1899. 2:499-553. pl.(phot.) maps (uncolored).
- Leeds. Lithology. Mus. rep. 30 (for 1876) 1878. p.79-109.
- Needham. Aquatic Insects in the Adirondacks. Mus. bul. 47. 1901. p.383-612. 6pl. (lith.) 30pl. (phot.) *Same*, Mus. rep. 54 (for 1900) 1902. 4:383-612. 6pl. (lith.) 30pl. (phot.)
- Peck. Plants of the Summit of Mt Marcy. Bot. rep. 52 (for 1898) 1899. p.657-73. *Same*, Mus. rep. 52 (for 1898) 1900. 1:657-73.
- Peck. Plants of North Elba, Essex co. Mus. bul. 28. 1899. p.65-266. map. *Same*, Mus. rep. 53 (for 1899) 1901. 1:65-266. map.
- Smock. Magnetic Iron Ores. Mus. bul. 7. 1889. p.7-10, 24-44.
- revised by Merrill. Mus. bul. 15. 1895. p.532-37. *Same*, Mus. rep. 48 (for 1894) 1895. 1:532-37 (2d paging).
- revised by Merrill. Mus. bul. 19. 1898. p.218-19. *Same*, Mus. rep. 51 (for 1897) 1899. 1:218-19.
- Smyth. Crystalline Rocks of the Western Adirondack Regions. Geol. rep. 17 (for 1897) 1899. p.469-97. pl.(phot.) *Same*, Mus. rep. 51 (for 1897) 1899. 2:469-97. pl.(phot.)
- Smyth & Newland. Mapping Crystalline Rocks of Western Adirondacks. Geol. rep. 18 (for 1898) 1899. p.129-35. *Same*, Mus. rep. 52 (for 1898) 1900. 2:129-35.
- Stevens. Flora of the Adirondacks. Alb. Inst. Trans. 1870. 6:67-82. Read before the Albany Institute, Feb. 1868.
- See also Clinton county; Essex county; Franklin county; Hamilton county; Jefferson county; Placid, Lake; St Lawrence county; Saranac lakes; Warren county; Washington county.

- Aecidium.** Peck. Genus *Aecidium*. Mus. rep. 24 (for 1870) 1872. p.105-8.
- Agaricus.** Peck. Genus *Agaricus*. Mus. rep. 23 (for 1869) 1873. p.67-103.
- Agelacrinitidae,** *see* Echinoderma.
- Agoniatite limestone (Goniatite).** ^aClarke. Limestones of Central and Western New York interbedded with Bituminous Shales of the Marcellus Stage, with notes on their faunas. Mus. bul. 49. 1901. p.115-38. pl.8-9.
- Clarke. Fauna. Mus. bul. 52. 1902. p.668.
- Hall. Fossils of the Goniatite Limestone in the Marcellus Shale of the Hamilton Group, in the Eastern and Central Parts of the State of New York, and those of the Goniatite Beds of Rockford, Ind., with some analogous forms from the Hamilton group proper. Mus. rep. 13 (for 1859) 1860. p.95-112, 125. illus.; 15 (for 1861) 1862. p.81,196.
- Luther. Goniatite Limestone. Geol. rep. 15 (for 1895) 1897. p.279-80. *Same*, Mus. rep. 49 (for 1895) 1898. 2:279-80.
- Ries. Goniatite Limestone. Mus. bul. 44. 1901. p.766. *Same*, Mus. rep. 54 (for 1900) 1902. 3:766.
- Agriculture.** Emmons. Agriculture of New York. 1846-54. 5v. il. pl. sq. Q.
For contents, *see* List of publications, p.269-70.
- Gaylord. Geology as connected with Agriculture. Ag. Soc. Trans. 1 (for 1841) 1842. p.273-98.
- Norton. Elements of Scientific Agriculture. Ag. Soc. Trans. 9 (for 1849) 1850. p.602-735.
p.728-35 on applications of geology to agriculture.
- Peters. Agricultural and other Resources of the State of New York. Ag. Soc. Trans. 23 (for 1863) 1864. p.234-379. maps.
- Ries. Agricultural Uses of Lime. Mus. bul. 44. 1901. p.671-72. *Same*, Mus. rep. 54 (for 1900) 1902. 3:671-72.
- Roberts. On the Advantages of Geology to Agriculture. Ag. Soc. Trans. 8 (for 1848) 1849. p.362-65.
- Alabaster.** Beck. Alabaster. Min. N. Y. 1842. p.61, 237.
Whitlock. Alabaster. Mus. bul. 58. 1902. p.126, 127.
- Albany.** Beecher. Some Abnormal and Pathologic Forms of Fresh-water Shells from the Vicinity of Albany, N. Y. Mus. rep. 36 (for 1882) 1883. p.51-55. 2pl.
- Beecher. List of Species of Fossils from an Exposure of the Utica Slate and Associated Rocks in the Limits of Albany, N. Y. Mus. rep. 36 (for 1882) 1883. p.78.
- De Tarr. List of the Rhizopoda found in the Vicinity of. Mus. rep. 35 (for 1881) 1884. p.165-67.
- Eights. Geological Features of the Post Tertiary Formation of the City of Albany and its Vicinity. Alb. Inst. Trans. 1833-52. 2:335-53.
- Marshall. Beaks of Unionidae inhabiting the Vicinity of. Mus. bul. 9. 1890. p.167-89. 1pl.
- Mather. Albany Mineral Springs. Geol. N. Y. pt.1. 1843. p.101-3.
- Smock. Stone Construction in. Mus. bul. 10. 1890. p.324-30.
- Albany county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.54-55.
- Clarke. Oriskany Fauna. Mus. mem. 3. 1900. p.77. *Same*, Mus. rep. 53 (for 1899) 1901. 2:77.
- Darton. Preliminary Report on Geology. Geol. rep. 13 (for 1893) 1894. p.229-61. pl.(phot.) map in Geol. rep. 15, v.1. *Same*, Mus. rep. 47 (for 1893) 1894. p.423-55. pl.(phot.) map in Mus. rep. 49, v.2.
Preliminary geologic map of Albany county, 78x74.5cm.

Albany county (*continued*)

- Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.552. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:552.
- — — Ent. rep. 16 (for 1900) 1901. p.1001-2. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1001-2.
- — — Ent. rep. 17 (for 1901) 1902. p.776-77. (Mus. bul. 53).
- Hall. Catalogue of Fossils from Lower Helderberg Rocks. Pal. N. Y. 1859. 3:492-94.
- Mather. Geological Phenomena and Resources. Geol. rep. 1st dist. (for 1840) 1841. p.63-112.
- Mather. Hudson River Group. Geol. N. Y. pt.1. 1843. p.375-80.
- Mather. Dip and Strike of Rocks. Geol. N. Y. pt.1. 1843. p.620-21.
- Merrill. Hudson River Bluestone Quarrymen. Mus. bul. 15. 1895. p.458. *Same*, Mus. rep. 48 (for 1894) 1895. 1:458 (2d paging).
- Nason. Economic Geology. Geol. rep. 13 (for 1893) 1894. p.263-87. pl.(phot.) *Same*, Mus. rep. 47 (for 1893) 1894. p.457-81. pl.(phot.)
- Prosser. Geologic Map of Part of. Geol. rep. 15 (for 1895) 1897. facing p.87. *Same*, Mus. rep. 49 (for 1895) 1898. v.2, facing p.87.
- Prosser. Hamilton, Sherburne and Ithaca Formations. Geol. rep. 17 (for 1897) 1899. p.239-64. *Same*, Mus. rep. 51 (for 1897) 1899. 2:239-64.
- Ries. Brick Yards. Mus. bul. 12. 1895. p.190-92, 246. *Same*, Mus. rep. 48 (for 1894) 1895. 1:190-92, 246 (2d paging).
- — — Mus. bul. 35. 1900. p.704-8. *Same*, Mus. rep. 54 (for 1900) 1902. 2:704-8.
- Ries. Drain Tile Works. Mus. bul. 12. 1895. p.222. *Same*, Mus. rep. 48 (for 1894) 1895. 1:222 (2d paging).
- — — Mus. bul. 35. 1900. p.771. *Same*, Mus. rep. 54 (for 1900) 1902. 2:771.
- Ries. Limestones. Geol. rep. 17 (for 1897) 1899. p.429-31. *Same*, Mus. rep. 51 (for 1897) 1899. 2:429-31.
- — — *revised*. Mus. bul. 44. 1901. p.769-72. *Same*, Mus. rep. 54 (for 1900) 1902. 3:769-72.
- Ruedemann. Hudson River Beds near Albany and their Taxonomic Equivalents. Mus. bul. 42. 1901. p.485-596. 2pl. map. *Same*, Mus. rep. 54 (for 1900) 1902. 3:485-596. 2pl. map.
- Stratigraphic map showing the subdivisions of the Hudson river beds in parts of Albany and Rensselaer counties, 51.5x24.5cm.
- See also* Helderbergs.
- Albion quadrangle.** Clarke, Ruedemann & Luther. Contact Lines of Upper Siluric Formations. Mus. bul. 52. 1902. p.519-21.
- Albite.** Beck. Albite. Min. N. Y. 1842. p.342. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.138.
- Emmons. Albite. Ag. N. Y. 1846. 1:39.
- Merrill. Albite. Mus. bul. 19. 1898. p.121. *Same*, Mus. rep. 51 (for 1897) 1899. 1:121.
- Nason. Albite. Mus. bul. 4. 1888. p.9.
- Whitlock. Albite. Mus. bul. 58. 1902. p.89-90.
- Allanite.** Beck. Allanite. Min. rep. (for 1839) 1840. p.109-10. Min. N. Y. 1842. p.440-41.
- Hunt. Allanite. Mus. rep. 21 (for 1867) 1871. p.84.
- Mather. Highlandite: Allanite. Geol. N. Y. pt.1. 1843. p.512-13.
- Allegheny county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.55.
- Bishop. Oil and Gas in. Geol. rep. 19 (for 1899) 1901. p.r107-13. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r107-13.
- Bishop. Consumption of Natural Gas in. Geol. rep. 19 (for 1899) 1901. p.r113-15. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r113-15.

Allegheny county (*continued*)

- Dickinson. Bluestone quarries. Mus. bul. 61. *In press*.
 Hall. Allegheny. Geol. rep. 4th dist. (for 1839) 1840. p.401-11. Geol. N. Y. pt4. 1843. p.484-88.
 Ries. Brick Yards. Mus. bul. 12. 1895. p.208-9, 250. *Same*, Mus. rep. 48 (for 1894) 1895. 1:208-9, 250 (2d paging).
 ——— Mus. bul. 35. 1900. p.726. *Same*, Mus. rep. 54 (for 1900) 1902. 2:726.
 Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.90-91; 10. 1890. p.277.
 ——— *revised* by Merrill. Mus. bul. 15. 1895. p.410. *Same*, Mus. rep. 48 (for 1894) 1895. 1:410 (2d paging).
 van Ingen. Oil and Gas Field. Mus. bul. 15. 1895. p.558-60. *Same*, Mus. rep. 48 (for 1894) 1895. 1:558-60 (2d paging).
- Alluvial deposits.** Carr. Alluvium. Geol. rep. 3d dist. (for 1839) 1840. p.386.
 Gale. Alluvial Beds and Valleys of New York County. Geol. rep. 1st dist. (for 1838) 1839. p.187-90.
 Hall. Alluvium. Geol. rep. 4th dist. (for 1838) 1839. p.329-31.
 Horsford. Alluviums of Cattaraugus County. Geol. rep. 4th dist. (for 1839) 1840. p.459-60.
 Mather. Alluvial Deposits. Geol. rep. 1st dist. (for 1836) 1837. p.70-73 (ed. 2, p.72-75); (for 1839) 1840. p.214-15; (for 1840) 1841. p.66-71.
 Mather. Fluvialite Alluvions. Geol. rep. 1st dist. (for 1837) 1838. p.143-46; (for 1838) 1839. p.72-74, 117-18. Geol. N. Y. pt1. 1843. p.4-10.
 Vanuxem. Alluvions. Geol. rep. 3d dist. (for 1838) 1839. p.282-83.
 Vanuxem. Alluvial Deposits. Geol. N. Y. pt3. 1842. p.212-20.
See also Drift.
- Alluvial division.** Mather. Alluvial Division. Geol. N. Y. pt1. 1843. p.4-123, 229-37, 634-39.
- Alum.** Beck. Alum. Min. N. Y. 1842. p.202-3.
- Alumina.** Beck. Alumina. Min. N. Y. 1842. p.314-74. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.135-45.
 Mather. Sulphates of Lime, Alumina, etc. Geol. N. Y. pt1. 1843. p.83-85.
- Aluminite.** Beck. Aluminite. Min. N. Y. 1842. p.320-21.
- Alunite.** Whitlock. Alunite. Mus. bul. 58. 1902. p.127.
- Amanita.** Peck. New York Species of Amanita. Mus. rep. 33 (for 1879) 1880. p.38-49.
- Amber.** Beck. Amber. Min. rep. (for 1838) 1839. p.15. Min. N. Y. 1842. p.185.
 Whitlock. Amber. Mus. bul. 58. 1902. p.129.
- Ambrosia beetles.** Felt. Ambrosia Beetles. Forest, Fish and Game Com. rep. 7 (for 1901). *In press*.
- Ammonia.** Beck. Carbonate of Ammonia. Min. N. Y. 1842. p.195.
- Ammonium sulfate.** Ries. Ammonium Sulfate. Mus. bul. 44. 1901. p.668. *Same*, Mus. rep. 54 (for 1900) 1902. 3:668.
- Amphibia,** *see* Batrachia.
- Amphibole.** Beck. Hornblende. Min. N. Y. 1842. p.298-308.
 Merrill. Amphiboles. Mus. bul. 19. 1898. p.121. *Same*, Mus. rep. 51 (for 1897) 1899. 1:121.
 Whitlock. Amphibole. Mus. bul. 58. 1902. p.94-95.
- Amphibolites.** Merrill. Amphibolites. Mus. rep. 50 (for 1896) 1898. 1:31 (1st paging).
- Amsterdam quadrangle.** Geologic Map. Mus. bul. 34. 1900. *Same*, Mus. rep. 54 (for 1900) 1902. v.1, facing p.415.

- Analcite.** Beck. Analcime. Min. N. Y. 1842. p.352.
Whitlock. Analcite. Mus. bul. 58. 1902. p.109.
- Anatase, see** Octahedrite.
- Andalusite.** Beck. Andalusite. Min. N. Y. 1842. p.362-63.
Whitlock. Andalusite. Mus. bul. 58. 1902. p.103.
- Andesite.** Merrill. Andesite. Mus. bul. 19. 1898. p.121. *Same*, Mus. rep. 51 (for 1897) 1899. 1:121.
- Anglesite.** Beck. Anglesite. Min. N. Y. 1842. p.415-16.
Whitlock. Anglesite. Mus. bul. 58. 1902. p.125.
- Anhydrite.** Beck. Anhydrite. Min. N. Y. 1842. p.238-39.
Whitlock. Anhydrite. Mus. bul. 58. 1902. p.124-25.
- Ankerite.** Beck. Brown Spar, or Ankerite. Min. rep. (for 1839) 1840. p.107. Min. N. Y. 1842. p.398-99.
- Annelida.** De Kay. Annelides. Assembly doc. 1840, no.50, p.34-35.
Webster. Annelida Chaetopoda of New Jersey. Mus. rep. 32 (for 1878) 1879. p.101-28; *reprint* 39 (for 1885) 1886. p.128-59, pl.4-10.
Webster. Annelida Chaetopoda of the Virginian Coast. Alb. Inst. Trans. 1879. 9:202-69.
- Annelida (paleozoic).** Clarke. Annelid Teeth from the Lower Portion of the Hamilton Group and from the Naples Shales of Ontario Co. N. Y. Geol. rep. 6 (for 1886) 1887. p.30-32. 1pl.
- Clarke. List of the Original and Illustrated Specimens in the Palaeontological Collections. Pt2, Annelida and Cephalopoda. Geol. rep. 12 (for 1892) 1893. p.55-104. *Same*, Mus. rep. 46 (for 1892) 1893. p.201-50.
- Clarke. Oriskany Species of Becraft Mountain. Mus. mem. 3. 1900. p. 26-28. *Same*, Mus. rep. 53 (for 1899) 1901. 2:26-28.
- Grabau. Annelida of Niagara Region. Mus. bul. 45. 1901. p.161. *Same*, Mus. rep. 54 (for 1900) 1902. 4:161.
- Hall. Annelida of Lower Helderberg Group. Pal. N. Y. 1859. 3:349.
- Hall. Articulata of Potsdam Sandstone. Mus. rep. 16 (for 1862) 1863. p.136.
- Hall. Annelida of Niagara Group in Central Indiana. Mus. rep. 28 (for 1874) 1879. p.181-85.
- Hall. Tubicolar Annelida. Pal. N. Y. 1888. v.7. supplement, p.8-24. pl.115-16a.
- Ruedemann. New Species of Annelida of Hudson River Beds near Albany. Mus. bul. 42. 1901. p.573-74. *Same*, Mus. rep. 54 (for 1900) 1902. 3:573-74.
- Wood. Annelida of Marcellus (Stafford) Limestones of Lancaster, Erie Co. N. Y. Mus. bul. 49. 1901. p.155.
- See also* Vermes.
- Anorthite.** Merrill. Anorthite. Mus. bul. 19. 1898. p.121. *Same*, Mus. rep. 51 (for 1897) 1899. 1:121.
Whitlock. Anorthite. Mus. bul. 58. 1902. p.90-91.
- Anorthosites.** Cushing. Anorthosite Intrusion. Geol. rep. 16 (for 1896) 1899. p.11. *Same*, Mus. rep. 50 (for 1896) 1899. 2:11.
Cushing. Anorthosites of Franklin County. Geol. rep. 18 (for 1898) 1899. p.99-105. *Same*, Mus. rep. 52 (for 1898) 1900. 2:99-105.
Cushing. Anorthosite-gabbros of Clinton County. Geol. rep. 19 (for 1899) 1901. p.r52-54. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r52-54.
- Cushing. Anorthosites in Franklin and St Lawrence Counties. Geol. rep. 20 (for 1900) 1902. p.r30-82. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r30-82. With analyses.
- Kemp. Anorthosites of Lake Placid Region. Mus. bul. 21. 1898. p.57-58, 61. *Same*, Mus. rep. 52 (for 1898) 1900. 1:57-58, 61.

Anorthosites (*continued*)

Leeds. Lithology of the Adirondacks. Mus. rep. 30 (for 1876) 1878. p.79-109.

See also Gabbros; Hypersthene rock.

Ant-lions, *see* Neuropteroid insects.

Anthophyllite. Beck. Anthophyllite; Hydrous Anthophyllite. Min. N. Y. 1842. p.312-13.

Gale. Hydrous Anthophyllite of New York County. Geol. rep. 1st dist. (for 1838) 1839. p.193-94.

Anthozoa (paleozoic). Clarke. Oriskany Species of Becraft Mountain. Mus. mem. 3. 1900. p.62-64. *Same*, Mus. rep. 53 (for 1899) 1901. 2:62-64.

Girty. Anthozoa of Lower Helderberg Group. Geol. rep. 14 (for 1894) 1895. p.299-309. *Same*, Mus. rep. 48 (for 1894) 1895. 2:299-309.

Grabau. Anthozoa of Hamilton Group. Geol. rep. 16 (for 1896) 1899. p.287-90. *Same*, Mus. rep. 50 (for 1896) 1899. 2:287-90.

Grabau. Anthozoa of Niagara Region. Mus. bul. 45. 1901. p.135-48. *Same*, Mus. rep. 54 (for 1900) 1902. 4:135-48.

Ruedemann. Anthozoa of Trenton Conglomerate of Rysedorph Hill. Mus. bul. 49. 1901. p.10-12.

Wood. Anthozoa of Marcellus (Stafford) Limestones of Lancaster, Erie Co. N. Y. Mus. bul. 49. 1901. p.154-55.

See also Corals.

Anthracite. Beck. Anthracite. Min. rep. (for 1838) 1839. p.15. Min. N. Y. 1842. p.94, 188-89. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.119.

Hunt. Anthracite. Mus. rep. 21 (for 1867) 1871. p.97-98.

Antimony. Whitlock. Stibnite (antimony glance). Mus. bul. 58. 1902. p.52.

Antiquarian collection, *see* Historical and antiquarian collection.

Ants. Felt. Little Red Ant. Ag. Soc. Trans. 59 (for 1899) 1900. p.298-99.

Lintner. Little Red Ant. Ent. rep. 11 (for 1895) 1896. p.109-14. *Same*, Mus. rep. 49 (for 1895) 1897. 1:109-14.

See also Hymenoptera.

Apatite. Beck. Apatite. Min. N. Y. 1842. p.239-43. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.127-28.

Hunt. Apatite. Mus. rep. 21 (for 1867) 1871. p.73-75.

Merrill. Localities. Mus. bul. 15. 1895. p.581. *Same*, Mus. rep. 48 (for 1894) 1895. 1:581 (2d paging).

——— Mus. bul. 19. 1898. p.233. *Same*, Mus. rep. 51 (for 1897) 1899. 1:233.

Nason. Apatite. Mus. bul. 4. 1888. p.8, 15.

Whitlock. Apatite. Mus. bul. 58. 1902. p.117-18.

See also Eupyrcroite.

Aphis-lions, *see* Neuropteroid insects.

Apophyllite. Beck. Apophyllite. Min. N. Y. 1842. p.348-49.

Whitlock. Apophyllite. Mus. bul. 58. 1902. p.108.

Appalachian geology. Ulrich & Schuchert. Paleozoic Seas and Barriers in Eastern North America. Mus. bul. 52. 1902. p.633-63.

Apple leaf Bucculatrix. Lintner. Apple Leaf Bucculatrix. Ent. rep. 1 (for 1881) 1882. p.157-62.

Apple leaf miner. Lintner. Apple Leaf Miner. Ent. rep. 11 (for 1895) 1896. p.160-62. *Same*, Mus. rep. 49 (for 1895) 1897. 1:160-62.

Appletree bark louse. Felt. Appletree Bark Louse. Mus. bul. 46. 1901. p.297-300. *Same*, Mus. rep. 54 (for 1900) 1902. 4:297-300.

Lintner. Appletree Bark Louse. Ent. rep. 4 (for 1887) 1888. p.114-20. *Same*, Mus. rep. 41 (for 1887) 1888. p.234-40.

- Appletree borer.** Lintner. Round-headed Appletree borer. Ent. rep. 5 (for 1888) 1889. p.269-71. *Same*, Mus. rep. 42 (for 1888) 1889. p.269-71.
- Appletree tent caterpillar.** Felt. Appletree Tent Caterpillar. Ent. rep. 14 (for 1898) 1898. p.177-90. (Mus. bul. 23). *Same*, Mus. rep. 52 (for 1898) 1900.1:177-90.
 ——— Mus. bul. 27. 1899. p.46-48. *Same*, Mus. rep. 53 (for 1899) 1901. 1:46-48.
 ——— Ag. Soc. Trans. 59 (for 1899) 1900. p.271-72.
- Apulia shale.** Conrad. Shales near Apulia. Pal. rep. (for 1840) 1841. p.31.
See also Erie division; Hamilton group.
- Aquatic insects.** Felt. Aquatic Insects of the Saranac Region. Forest, Fish and Game Com. rep. 6 (for 1900) 1901. p.499-531. illus. 6pl.
 Needham & Betten. Aquatic Insects in the Adirondacks. Mus. bul. 47. 1901. p.383-612. illus. 6pl. (lith.) 30pl. (phot.) *Same*, Mus. rep. 54 (for 1900) 1902. 4:383-612. illus. 6pl. (lith.) 30pl. (phot.)
 Needham & others. Aquatic Insects of New York. Mus. bul. 68. *In press*.
- Arachnida.** Additions to Collection. Ent. rep. 3, p.142; 5, p.326; 6, p.190; 7, p.384; 9, p.464; 10, p.513; 11, p.288; 13, p.375; 14, p.262-63; 15, p.620; 16, p.1046; 17, p.824.
 For dates of reports, *see* List of publications, p.264.
- Arachnida (paleozoic)** *see* Tracheata.
- Aragonite.** Beck. Arragonite. Min. N. Y. 1842. p.235-37.
 Merrill. Aragonite. Mus. bul. 19. 1898. p.120. *Same*, Mus. rep. 51 (for 1897) 1899. 1:120.
 Whitlock. Aragonite. Mus. bul. 58. 1902. p.83-84.
- Archaean.** Merrill. Archaean; Typical Localities. Mus. bul. 19. 1898. p.138-41. *Same*, Mus. rep. 51 (for 1897) 1899. 1:138-41.
See also Crystalline rocks.
- Archeology,** *see* Aborigines; Historical and antiquarian collection; Indians; Platycnemid man.
- Arfvedsonite.** Beck. Arfwedsonite. Min. N. Y. 1842. p.309.
- Argentite.** Beck. Vitreous Silver. Min. N. Y. 1842. p.443.
 Whitlock. Argentite. Mus. bul. 58. 1902. p.53.
- Argillaceous iron ores,** *see* Clinton ores.
- Argillite,** *see* Transition argillite.
- Arickarees.** Morgan. Stone and Bone Implements of the Arickarees. Mus. rep. 21 (for 1867) 1871. p.25-46. 6pl.
- Armillaria.** Peck. New York Species of Armillaria. Bot. rep. 43 (for 1889) 1890. p.40-45. *Same*, Mus. rep. 43 (for 1889) 1890. p.86-91.
- Army worm.** Lintner. Army worm. Ent. rep. 12 (for 1896) 1897. p.190-214. *Same*, Mus. rep. 50 (for 1896) 1898. 1:190-214 (1st paging).
- Arragonite,** *see* Aragonite.
- Arsenic.** Beck. Arsenic. Min. rep. (for 1838) 1839. p.53-54. Min. N. Y. 1842. p.56, 439-40.
- Arsenical iron pyrites,** *see* Arsenopyrite.
- Arsenical poisons.** Felt. Arsenical compounds. Ent. rep. 14 (for 1898) 1898. p.224-26 (Mus. bul. 23). *Same*, Mus. rep. 52 (for 1898) 1900. 1:224-26.
 Felt. Formulas for Arsenical Preparations. Forest, Fish and Game Com. rep. 5 (for 1899) 1900. p.353.
 Felt. Insecticides. University handbook 18. p.2-6. *In press*.
- Arsenopyrite.** Beck. Arsenical Iron; Mispickel. Min. rep. (for 1836) 1837. p.41-42 (ed. 2, p.43-44). Min. N. Y. 1842. p.394-96.
 Mather. Arsenical Ores of Putnam County. Geol. rep. 1st dist. (for 1838) 1839. p.105-6.

Arsenopyrite (*continued*)

- Mather. Orpiment and Arseniate of Iron. Geol. N. Y. pt. 1. 1843. p.119.
- Merrill. Localities. Mus. bul. 15. 1895. p.579. *Same*, Mus. rep. 48 (for 1894) 1895. 1:579 (2d paging).
- Mus. bul. 19. 1898. p.232. *Same*, Mus. rep. 51 (for 1897) 1899. 1:232.
- Whitlock. Arsenopyrite. Mus. bul. 58. 1902. p.60.
- Artesian wells.** Mather. Artesian wells. Geol. N. Y. pt. 1. 1843. p.146.
- Articulata**, *see* Annelida; Crustacea; Entomology.
- Articulata (paleozoic)**, *see* Annelida (paleozoic); Crustacea (paleozoic).
- Asbestos.** Merrill. Asbestos. Mus. bul. 19. 1898. p.121. *Same*, Mus. rep. 51 (for 1897) 1899. 1:121.
- Whitlock. Asbestos. Mus. bul. 58. 1902. p.95.
- Asparagus beetle.** Felt. Common Asparagus Beetle. Ent. rep. 15 (for 1899) 1900. p.540-41. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:540-41.
- Felt. Twelve-spotted Asparagus Beetle. Ent. rep. 15 (for 1899) 1900. p.540-41. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:540-41.
- Lintner. Common Asparagus Beetle. Ent. rep. 1 (for 1881) 1882. p.239-46.
- Ent. rep. 11 (for 1895) 1896. p.177-81. *Same*, Mus. rep. 49 (for 1895) 1897. 1:177-81.
- Lintner. Twelve-spotted Asparagus Beetle. Ent. rep. 12 (for 1896) 1897. p.248-52. *Same*, Mus. rep. 50 (for 1896) 1898. 1:248-52 (1st paging).
- Asphaltum.** Whitlock. Asphaltum. Mus. bul. 58. 1902. p.130.
- Asteroidea**, *see* Echinoderma.
- Astraeospongidae**, *see* Spongiae.
- Astylospongidae**, *see* Spongiae.
- Atacamite.** Whitlock. Atacamite. Mus. bul. 58. 1902. p.66.
- Atmospheric air.** Beck. Atmospheric Air. Min. N. Y. 1842. p.176.
- Atmospheric water.** Beck. Atmospheric Water. Min. N. Y. 1842. p.178-79.
- Auburn.** Smock. Stone Construction in. Mus. bul. 10. 1890. p.342-43.
- Augite.** Beck. Augite. Min. N. Y. 1842. p.286.
- Emmons. Augite. Ag. N. Y. 1846. 1:40.
- Mather. Augite Rock in Putnam and Westchester Counties. Geol. rep. 1st dist. (for 1838) 1839. p.102. Geol. N. Y. pt. 1. 1843. p.531-32.
- Mather. Augite Rock of Orange and Rockland Counties. Geol. N. Y. pt. 1. 1843. p.538-39.
- Merrill. Augite. Mus. bul. 19. 1898. p.121. *Same*, Mus. rep. 51 (for 1897) 1899. 1:121.
- Whitlock. Pyroxene (Augite). Mus. bul. 58. 1902. p.92.
- Augite-syenites.** Cushing. Augite-syenite of Clinton County. Geol. rep. 19 (for 1899) 1901. p.59-60. *Same*, Mus. rep. 53 (for 1899) 1901. 1:59-60.
- Cushing. Augite-syenite in Franklin and St Lawrence Counties. Geol. rep. 20 (for 1900) 1902. p.25-82. *Same*, Mus. rep. 54 (for 1900) 1902. 1:25-82.
- With analyses.
- Automolite.** Beck. Automolite. Min. N. Y. 1842. p.319. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.135-36.
- Autunite.** Whitlock. Autunite. Mus. bul. 58. 1902. p.122.
- Aymestry limestone.** Conrad. Aymestry Limestone. Pal. rep. (for 1840) 1841. p.31.
- Azurite.** Beck. Azurite. Min. N. Y. 1842. p.426-27.
- Whitlock. Azurite. Mus. bul. 58. 1902. p.86-87.

- Babingtonite.** Beck. Babingtonite. Min. N. Y. 1842. p.407-8. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.149.
Hunt. Babingtonite. Mus. rep. 21 (for 1867) 1871. p.79.
- Bacillaria.** Mather. Bacillaria. Geol. N. Y. pt.1. 1843. p.51-77, 238-45.
- Bag worm.** Felt. Bag Worm. Forest, Fish and Game Com. rep. 5 (for 1899) 1900. p.359-63.
Lintner. Bag Worm. Ent. rep. 1 (for 1881) 1882. p.81-87.
- Bald mountain limestone,** *see* Black river limestone.
- Ballston Springs.** Mather. Ballston Springs. Geol. N. Y. pt.1. 1843. p.98-101.
- Balsam bark borer.** Felt. Balsam Bark Borer. Forest, Fish and Game Com. rep. 7 (for 1901). *In press.*
- Balsam trees,** *see* Forest trees.
- Barite.** Beck. Heavy Spar. Min. N. Y. 1842. p.204-9.
Hunt. Heavy Spar. Mus. rep. 21 (for 1867) 1871. p.73.
Merrill. Localities. Mus. bul. 15. 1895. p.582. *Same*, Mus. rep. 48 (for 1894) 1895. 1:582 (2d paging).
——— Mus. bul. 19. 1898. p.233-34. *Same*, Mus. rep. 51 (for 1897) 1899. 1:233-34.
Whitlock. Barite. Mus. bul. 58. 1902. p.124.
- Barium carbonate,** *see* Witherite.
- Bark borers.** Felt. Bark Borers. Forest, Fish and Game Com. rep. 7 (for 1901). *In press.*
- Barnegate limestone.** ^aMather. Barnegat Limestone. Geol. rep. 1st dist. (for 1837) 1838. p.168.
Mather. Barnegate Limestone. Geol. N. Y. pt.1. 1843. p.410-14.
See also Newburg limestone.
- Barystrontianite.** Beck. Barystrontianite. Min. N. Y. 1842. p.213-14.
- Baryta.** Beck. Baryta. Min. rep. (for 1838) 1839. p.17-18. Min. N. Y. 1842. p.204-9.
- Basalt.** Emmons. Basalt. Ag. N. Y. 1846. 1:42.
- Base of the Trenton limestone,** *see* Black river limestone.
- Basic steel.** Ries. Manufacture. Geol. rep. 17 (for 1897) 1899. p.374.
Same, Mus. rep. 51 (for 1897) 1899. 2:374.
——— *revised.* Mus. bul. 44. 1901. p.667. *Same*, Mus. rep. 54 (for 1900) 1902. 3:667.
- Bastard limestone.** Conrad. Bastard Limestone. Geol. rep. 3d dist. (for 1836) 1837. p.162 (ed. 2, p.164).
- Bastite.** Beck. Schiller Spar. Min. rep. (for 1839) 1840. p.109. Min. N. Y. 1842. p.311-12.
- Batrachia.** Additions to Collections. Mus. rep. 2, p.23; 3 *rev. ed.* p.28; 4, p.24; 5, p.21, 24; 6, p.23; 7, p.18, 25; 9, p.16-18; 17, p.14; 46, p.21-22; 53, 1:r169.
For dates of Mus. rep., *see* List of publications, p.241.
- De Kay. Amphibia. Zool. N. Y. 1842. v.3. pt3. p.59-89. (v.3, pt3 text, v.4 plates).
- Lansing. Frogs and their Contributions to Science. Alb. Inst. Trans. 1870. 6:120-35.
List of Deficiencies in the Amphibia. Mus. rep. 17 (for 1863) 1864. p.14.
Paulmier. Lizards, Tortoises and Batrachians of New York. Mus. bul. 51. 1902. p.389-409.
- Bauxite.** Whitlock. Bauxite. Mus. bul. 58. 1902. p.78.
- Bean-weevil.** Lintner. Bean-weevil. Ent. rep. 7 (for 1890) 1891. p.255-79.
Same, Mus. rep. 44 (for 1890) 1892. p.255-79.

- Becraft limestone (Scutella; Upper Pentamerus).** Clarke & Schuchert. *Becraft Limestone*. Mus. mem. 3. 1900. p.12. *Same*, Mus. rep. 53 (for 1899) 1901. 2:12.
- a* Darton. *Becraft Limestone*. Geol. rep. 13 (for 1893) 1894. p.212-13. *Same*, Mus. rep. 47 (for 1893) 1894. p.406-7.
Also quoted in Geol. rep. 17, p.365 and Mus. bul. 44. p.760.
- Darton. *Becraft Limestone of Albany County*. Geol. rep. 13 (for 1893) 1894. p.245-46. *Same*, Mus. rep. 47 (for 1893) 1894. p.439-40.
- Darton. *Becraft Limestone of Ulster County*. Geol. rep. 13 (for 1893) 1894. p.304. *Same*, Mus. rep. 47 (for 1893) 1894. p.498.
- Ries. *Becraft Limestone*. Geol. rep. 17 (for 1897) 1899. p.364. *Same*, Mus. rep. 51 (for 1897) 1899. 2:364.
——— *revised*. Mus. bul. 44. 1901. p.762. *Same*, Mus. rep. 54 (for 1900) 1902. 3:762.
- Ries. *Becraft Limestone of Albany County*. Geol. rep. 17 (for 1897) 1899. p.429. *Same*, Mus. rep. 51 (for 1897) 1899. 2:429.
——— *revised*. Mus. bul. 44. 1901. p.770. *Same*, Mus. rep. 54 (for 1900) 1902. 3:770.
- Ries. *Becraft Limestone of Columbia County*. Geol. rep. 17 (for 1897) 1899. p.431. *Same*, Mus. rep. 51 (for 1897) 1899. 2:431.
——— *revised*. Mus. bul. 44. 1901. p.776-77. *Same*, Mus. rep. 54 (for 1900) 1902. 3:776-77.
- Ries. *Becraft Limestone of Greene County*. Geol. rep. 17 (for 1897) 1899. p.437. *Same*, Mus. rep. 51 (for 1897) 1899. 2:437.
——— *revised*. Mus. bul. 44. 1901. p.786-87. *Same*, Mus. rep. 54 (for 1900) 1902. 3:786-87.
- Ries. *Becraft Limestone of Ulster County*. Geol. rep. 17 (for 1897) 1899. p.456-57. *Same*, Mus. rep. 51 (for 1897) 1899. 2:456-57.
——— *revised*. Mus. bul. 44. 1901. p.821-22. *Same*, Mus. rep. 54 (for 1900) 1902. 3:821-22.
- See also* Encrinal limestone (Scutella); Scutella limestone.
- Becraft mountain.** Clarke. *Oriskany Fauna of Becraft Mountain, Columbia County, N. Y.* Mus. mem. 3. 1900. 128p. 9pl. *Same*, Mus. rep. 53 (for 1899) 1901. v.2, 128p. 9pl.
- Grabau. *Stratigraphy of Becraft Mountain, Columbia County*. Pal. rep. (for 1902). *In press*.
With map.
- Mather. *Limestones*. Geol. N. Y. pt1. 1843. p.351-52.
- Bedbugs.** Felt. *Bedbug*. Ag. Soc. Trans. 59 (for 1899) 1900. p.299-300.
- Bedford, limestone of.** Mather. *Limestone of Bedford*. Geol. rep. 1st dist. (for 1838) 1839. p.91.
- Beekmantown limestone (Calciferous sandrock).** *b* Clarke & Schuchert. *Beekmantown Limestone*. Mus. mem. 3. 1900. p.11. *Same*, Mus. rep. 53 (for 1899) 1901. 2:11.
- Ruedemann. *Graptolite (Levis) Facies of the Beekmantown Formation in Rensselaer County N. Y.* Mus. bul. 52. 1902. p.546-75.
- See also* Calciferous sandrock.
- Bees,** *see* Hymenoptera.
- Beetles,** *see* Coleoptera.
- Bellvale flags.** Ries. *Bellvale Flags of Orange County*. Geol. rep. 15 (for 1895) 1897. p.404. *Same*, Mus. rep. 49 (for 1895) 1898. 2:404.
- Bellvale mountain.** Ries. *Geology of the Region along Bellvale Mountain*. Geol. rep. 15 (for 1895) 1897. p.410-15. *Same*, Mus. rep. 49 (for 1895) 1898. 2:410-15.

a First use of term.

b First use of term in original publication of this article. Science. 1899. new ser 10:877.

- Beryl.** Beck. Emerald. Min. N. Y. 1842. p.374.
Whitlock. Beryl. Mus. bul. 58. 1902. p.96.
- Binghamton.** Smock. Stone Construction in. Mus. bul. 10. 1890. p.337-38.
- Biotite.** Merrill. Biotite. Mus. bul. 19. 1898. p.122. *Same*, Mus. rep. 51 (for 1897) 1899. 1:122.
Whitlock. Biotite. Mus. bul. 58. 1902. p.111.
- Birds.** Catalogues and Additions. Mus. rep. 1, p.11-20; 2, p.19-22; 3 *rev. ed.*, p.19-21, 42; 4, p.20-22, 31-41; 5, p.18; 6, p.20; 7, p.17; 8, p.17-18; 9, p.13; 13, p.12-13; 24, p.19; 25, p.16; 46, p.21; 50, 1:12-14; 51, 1:r19; 52, 1:r26; 53, 1:r167-68.
For dates of Mus. rep., *see* List of publications, p.241.
- Danker. List of the Birds of New York noticed in Maine during June 1862. Mus. rep. 16 (for 1862) 1863. p.15-16.
- De Kay. Birds. Assembly doc. 1840. no.50. p.8-11, 20-26. Zool. N. Y. 1844. v.2. pt2. 380p. 141pl.
- De Rham collection. Catalogue. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.42; 4 (for 1850) 1851. p.31-41.
- Eggs added to Collection. Mus. rep. 18 (for 1864) 1865. p.13-16.
- Farr. Check List of New York Birds. Mus. bul. 33. 1900. p.193-409.
Same, Mus. rep. 54 (for 1900) 1902. 1:193-409.
—— — Ed. 2 *revised*. Mus. bul. 33. 1900. p.193-414. *Same*, Mus. rep. 54 (for 1900) 1902. 1:193-414.
- Felt. Birds Feeding on Forest Tent Caterpillar. Forest, Fish and Game Com. rep. 4 (for 1898) 1899. p.377-78.
- List of Deficiencies in the Birds. Mus. rep. 17 (for 1863) 1864. p.13.
- Birdseye limestone (Lowville).** Conrad. Birdseye Limestone of Eaton. Pal. rep. (for 1837) 1838. p.114.
- Cummings. Historical Sketch. Mus. bul. 34 1900. p.421-23. *Same*, Mus. rep. 54 (for 1900) 1902. 1:421-23.
- Darton. Birdseye Limestone of the Mohawk Valley. Geol. rep. 13 (for 1893) 1894. p.422-24. *Same*, Mus. rep. 47 (for 1893) 1894. p.616-18.
- ^aEaton. Birdseye Marble. Geol. and Agric. Surv. adjoining the Erie Canal. 1824. p.32.
- Emmons. Birdseye Limestone. Geol. N. Y. pt2. 1842. p.107-10, 168. Ag. N. Y. 1846. 1:122.
- Emmons. Birdseye Limestone of Clinton County. Geol. N. Y. pt2. 1842. p.317-18.
- Emmons. Birdseye Limestone of Jefferson County. Geol. rep. 2d dist. (for 1839) 1840. p.324. Geol. N. Y. pt2. 1842. p.382-86.
- Emmons. Fossils. Geol. N. Y. pt2. 1842. p.108-10, 317, 382-86.
- Hall. Organic Remains. Geol. N. Y. pt4. 1843. p.28. Pal. N. Y. 1847. 1:37-46.
- Hall. Birdseye Limestone. Pal. N. Y. 1859. 3:11-12.
- Lincklaen. Birdseye Limestone; Fossils. Mus. rep. 14 (for 1860) 1861. p.41.
- Merrill. Birdseye Limestone. Mus. bul. 19. 1898. p.147-48. *Same*, Mus. rep. 51 (for 1897) 1899. 1:147-48.
- Prosser & Cummings. Lower Silurian Formations on West Canada Creek and in the Mohawk Valley. Geol. rep. 15 (for 1895) 1897. p.627-59. *Same*, Mus. rep. 49 (for 1895) 1898. 2:627-59.
- Ries. Birdseye Limestone. Geol. rep. 17 (for 1897) 1899. p.361. *Same*, Mus. rep. 51 (for 1897) 1899. 2:361.
—— — *revised*. Mus. bul. 44. 1901. p.756, 757. *Same*, Mus. rep. 54 (for 1900) 1902. 3:756, 757.

Birdseye limestone (*continued*)

Ries. Birdseye Limestone of Herkimer County. Geol. rep. 17 (for 1897) 1899. p.438. *Same*, Mus. rep. 51 (for 1897) 1899. 2:438.

— — — *revised*. Mus. bul. 44. 1901. p.788. *Same*, Mus. rep. 54 (for 1900) 1902. 3:788.

Ries. Birdseye Limestone of Jefferson County. Mus. bul. 44. 1901. p.789-90. *Same*, Mus. rep. 54 (for 1900) 1902. 3:789-90.

Ries. Birdseye Limestone of Lewis County. Mus. bul. 44. 1901. p.790-91. *Same*, Mus. rep. 54 (for 1900) 1902. 3:790-91.

Smock. Birdseye Limestone. Mus. bul. 3. 1888. p.21; 10. 1890. p.210-11.

— — — *revised* by Merrill. Mus. bul. 15. 1895. p.426. *Same*, Mus. rep. 48 (for 1894) 1895. 1:426 (2d paging).

— — — Mus. bul. 19. 1898. p.200. *Same*, Mus. rep. 51 (for 1897) 1899. 1:200.

Smock. Quarries. Mus. bul. 3. 1888. p.94-134; 10. 1890. p.238-55.

— — — *revised* by Merrill. Mus. bul. 15. 1895. p.432-47. *Same*, Mus. rep. 48 (for 1894) 1895. 1:432-47 (2d paging).

Vanuxem. Birdseye Limestone. Geol. rep. 3d dist. (for 1837) 1838. p.255, 266, 283; (for 1839) 1840. p.370. Geol. N. Y. pt3. 1842. p.39-42, 45.

Vanuxem. Birdseye Limestone in Montgomery County. Geol. rep. 3d dist. (for 1837) 1838. p.259. Geol. N. Y. pt3. 1842. p.250.

Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.39-40.

White. Birdseye Formation of Herkimer County. Mus. rep. 51 (for 1897) 1899. 1:r27.

See also Gray sparry limestone (Conrad's first report); Lowville limestone.

Bismuth. Beck. Native bismuth. Min. N. Y. 1842. p.419.

Whitlock. Bismuth. Mus. bul. 58. 1902. p.49.

Bismuthinite. Beck. Bismuthine. Min. N. Y. 1842. p.447.

Hunt. Bismuthine. Mus. rep. 21 (for 1867) 1871. p.91.

Bitter spar, *see* Dolomite.

Bitumen. Beck. Bitumen. Min. rep. (for 1838) 1839. p.15. Min. N. Y. 1842. p.182-84, 444. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.118.

Black lead, *see* Graphite.

Black marble. Emmons. Black Marble of Isle la Motte. Geol. N. Y. pt2. 1842. p.110-11, 168, 318-19. Ag. N. Y. 1846. 1:123.

Emmons. Isle La Motte Marble in Jefferson County. Geol. N. Y. pt2. 1842. p.386.

Emmons. Black Marble of Glen's Falls. Geol. N. Y. pt2. 1842. p.181-82.

Emmons. Fossils. Geol. N. Y. pt2. 1842. p.111, 318.

See also Black River limestone.

Black river limestone. Clarke & Schuchert. Black River Limestone. *See* New York series.

Cummings. Historical Sketch. Mus. bul. 34. 1900. p.423-24. *Same*, Mus. rep. 54 (for 1900) 1902. 1:423-24.

Cushing. Black River Limestone of Clinton County. Geol. rep. 15 (for 1895) 1897. p.514-73. *Same*, Mus. rep. 49 (for 1895) 1898. 2:514-73.

Darton. Black River Limestone of the Mohawk Valley. Geol. rep. 13 (for 1893) 1894. p.424. *Same*, Mus. rep. 47 (for 1893) 1894. p.618.

Hall. Black River Limestone Group. Geol. N. Y. pt4. 1843. p.28.

Hall. Organic Remains. Geol. N. Y. pt4. 1843. p.28. Pal. N. Y. 1847. 1:46-60.

Hall. Black River Limestone. Pal. N. Y. 1859. 3:11-12.

Lincklaen. Black River Limestone; Fossils. Mus. rep. 14 (for 1860) 1861. p.41-44.

Black river limestone (*continued*)

- Mather. Black River Limestone. Geol. N. Y. pt1. 1843. p.402-9.
- Merrill. Black River Limestone. Mus. bul. 19. 1898. p.148. *Same*, Mus. rep. 51 (for 1897) 1899. 1:148.
- Prosser & Cumings. Lower Silurian Formations on West Canada Creek and in the Mohawk Valley. Geol. rep. 15 (for 1895) 1897. p.627-59. *Same*, Mus. rep. 49 (for 1895) 1898. 2:627-59.
- Ries. Black River Limestone. Geol. rep. 17 (for 1897) 1899. p.360. *Same*, Mus. rep. 51 (for 1897) 1899. 2:360.
- — — *revised*. Mus. bul. 44. 1901. p.756. *Same*, Mus. rep. 54 (for 1900) 1902. 3:756.
- Ries. Black River Limestone of Clinton County. Geol. rep. 17 (for 1897) 1899. p.432. *Same*, Mus. rep. 51 (for 1897) 1899. 2:432.
- — — *revised*. Mus. bul. 44. 1901. p.774-75. *Same*, Mus. rep. 54 (for 1900) 1902. 3:774-75.
- Ries. Black River Limestone of Essex County. Geol. rep. 17 (for 1897) 1899. p.436. *Same*, Mus. rep. 51 (for 1897) 1899. 2:436.
- — — *revised*. Mus. bul. 44. 1901. p.782. *Same*, Mus. rep. 54 (for 1900) 1902. 3:782.
- Ries. Black River Limestone of Jefferson County. Mus. bul. 44. 1901. p.790. *Same*, Mus. rep. 54 (for 1900) 1902. 3:790.
- Smock. Black River Limestone. Mus. bul. 3. 1888. p.21; 10. 1890. p.210-11.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.426. *Same*, Mus. rep. 48 (for 1894) 1895. 1:426 (2d paging).
- — — Mus. bul. 19. 1898. p.200. *Same*, Mus. rep. 51 (for 1897) 1899. 1:200.
- Smock. Quarries. Mus. bul. 3. 1888. p.94-134; 10. 1890. p.238-55.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.432-47. *Same*, Mus. rep. 48 (for 1894) 1895. 1:432-47 (2d paging).
- a* Vanuxem. Black River Limestone. Geol. N. Y. pt3. 1842. p.38-45.
- Vanuxem. Black River Limestone in Lewis County. Geol. N. Y. pt3. 1842. p.265, 268.
- Vanuxem. Black River Limestone in Montgomery County. Geol. N. Y. pt3. 1842. p.250.
- Vanuxem. Black River Limestone in Oneida County. Geol. N. Y. pt3. 1842. p.259.
- Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.39-42.
- White. Black River Formation of Herkimer, Oneida and Lewis Counties. Mus. rep. 51 (for 1897) 1899. 1:r27-29.
- Black shale (Genesee shale).** Hall. Upper Black Shale of Erie County. Geol. rep. 4th dist. (for 1840) 1841. p.164. Geol. N. Y. pt4. 1843. p.473.
- Hall. Black Shale of Genesee County. Geol. rep. 4th dist. (for 1839) 1840. p.431. Geol. N. Y. pt4. 1843. p.467.
- Hall. Upper Black Shale of Livingston County. Geol. rep. 4th dist. (for 1839) 1840. p.422-23. Geol. N. Y. pt4. 1843. p.462-63.
- Hall. Upper Black Shale of Ontario County. Geol. rep. 4th dist. (for 1838) 1839. p.313. Geol. N. Y. pt4. 1843. p.457.
- Hall. Upper Black shale of Seneca County. Geol. rep. 4th dist. (for 1838) 1839. p.301-2. Geol. N. Y. pt4. 1843. p.452.
- Hall. Black Shale of Tompkins County. Geol. rep. 4th dist. (for 1838) 1839. p.317. Geol. N. Y. pt4. 1843. p.475.
- Hall. Black Shale in Yates County. Geol. rep. 4th dist. (for 1838) 1839. p.314-16. Geol. N. Y. pt4. 1843. p.458.

Black shale (Genesee shale) (*continued*)

Hall. Note on the Black Slate succeeding the Hamilton Limestones at the Falls of the Ohio. Pal. N. Y. 1879. v.5. pt.2. p.148-54.

Vanuxem. Black Shale. Geol. rep. 3d dist. (for 1839) 1840. p.381.

See also Genesee shales.

Black shale (Utica slate). Emmons. Black Slate. Ag. N. Y. 1846. 1:63-65.

Upper portion of Taconic slate.

Vanuxem. Black Shale. Geol. rep. 3d dist. (for 1837) 1838. p.258, 283; (for 1839) 1840. p.371-72.

See also Mohawk slate; Utica shale.

Blende, see Sphalerite.**Blister beetles.** Lintner. Margined Blister Beetle. Ent. rep. 6 (for 1889) 1890. p.134-35. *Same*, Mus. rep. 43 (for 1889) 1890. p.134-35.

Lintner. Striped Blister Beetle. Ent. rep. 6 (for 1889) 1890. p.132-34. *Same*, Mus. rep. 43 (for 1889) 1890. p.132-34.

Blue limestone, see Black river limestone.**Blue shale, see** Hamilton group.**Bluestone.** Dickinson. Bluestones and other Sandstones in the Upper Devonian in New York State. Mus. bul. 61. *In press*.

Eberhardt. Bluestone Quarries of New York. Mus. bul. 15. 1895. p.411-19. *Same*, Mus. rep. 48 (for 1894) 1895. 1:411-19 (2d paging).

Merrill. Bluestone; Producers. Mus. bul. 17. 1897. p.129-30. *Same*, Mus. rep. 50 (for 1896) 1898. 1:129-30 (2d paging).

Nason. Bluestone of Ulster County. Geol. rep. 13 (for 1893) 1894. p.384-91, 400-1. *Same*, Mus. rep. 47 (for 1893) 1894. p.578-85, 594-95.

Smock. Microscopic Structure. Mus. bul. 10. 1890. p.361.

Smock. Tests; Durability; Causes of Decay. Mus. bul. 10. 1890. p.364-89.

See also Hudson river bluestone; Seneca limestone.

Bog iron ore, see Limonite.**Bog manganese, see** Wad.**Boletus.** Peck. Genus Boletus. Mus. rep. 23 (for 1869) 1873. p.127-33.

Peck. Boleti of the United States. Mus. bul. 8. 1889. p.71-166.

See also Fungi.

Boltonite. Beck. Boltonite. Min. N. Y. 1842. p.283-84.**Bone ash.** Ries. Bone Ash. Mus. bul. 44. 1901. p.670. *Same*, Mus. rep. 54 (for 1900) 1902. 3:670.**Bone implements.** Beauchamp. Horn and Bone Implements of New York Indians. Mus. bul. 50. 1902. p.1-112, 43pl. (phot.)

Morgan. Stone and Bone Implements of the Arickarees. Mus. rep. 21 (for 1867) 1871. p.25-46. 6pl.

Boracite. Whitlock. Boracite. Mus. bul. 58. 1902. p.122.**Borax.** Whitlock. Borax. Mus. bul. 58. 1902. p.123.**Bornite.** Beck. Purple copper. Min. N. Y. 1842. p.453.

Whitlock. Bornite. Mus. bul. 58. 1902. p.57.

Botanic collection of museum. Additions. Mus. rep. 4, p.71; 6, p.24; 7, p.43-50; 18, p.11, 193-96; 19, p.39, 71; 20, p.15, 18; 21, p.14, 23-24; 22, p.9-10, 25-51; 23, p.23-24, 27-49; 24, p.19-21, 41-56; 25, p.17-19, 57-68; 26, p.18-19, 35-47; 27, p.28-30, 80-89; 28, p.21-23, 38-46; 29, p.21-22, 31-37; 30, p.14-15, 26-37; 31, p.11, 24-30; 32, p.10, 18-23; 33, p.12-17; 34, p.13-14, 36-41; 35, p.13, 126-31; 36, p.17-18, 30-34; 37, p.27, 66-68; 38, p.16-17, 79-82; 39, p.15-16, 33-38; 40, p.23, 44-51; 41, p.54-56; 42, p.106-11; 43, p.57-61; 44, p.121-26; 45, p.70-77; 46, p.92-98; 47, p.138-42; 48, 1:106-8 (1st paging); 49, 1:21-29; 50, 1:84-92 (1st paging); 51, 1:270-77; 52, 1:623-27; 53, 1:826-34.

For dates of Mus. rep., *see* List of publications, p.241.

Botanic collection of museum (*continued*)

- Deficiencies in the Herbarium. Mus. rep. 17 (for 1863) 1864. p.15-19.
 List of Plants for State Herbarium collected by H. B. Lord. Mus. rep. 19 (for 1865) 1866. p.71.
 Peck. Catalogue of Mosses presented to the State of New York by C. H. Peck. Mus. rep. 18 (for 1864) 1865. p.193-96.
 Torrey. Catalogue of Plants of the State of New York of which Specimens are preserved in the Cabinet at Albany. Mus. rep. 2 (for 1848) 1849. p.41-64.

Botany. Beck. Geographical Botany of the United States. Alb. Inst. Trans. 1828. 1:10-21.

Clinton. Preliminary Lists of the Plants of Buffalo and its Vicinity. Mus. rep. 17 (for 1863) 1864. p.24-35.

Clinton. Facts and Observations touching the Flora of the State of New York, by one of the Regents. Mus. rep. 18 (for 1864) 1865. p.197-205; 19 (for 1865) 1866. p.72-80.

Fenno. Plants of the Susquehanna Valley and Adjacent Hills of Tioga County. Bot. rep. (for 1902). *In press*.

Index to the Volumes in the State Cabinet of Natural History containing the Plants of the State of New York. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.161-72.

Paine. Catalogue of Plants found in Oneida County and Vicinity. Mus. rep. 18 (for 1864) 1865. p.53-192.

Peck. Facts and Observations touching the Flora of the State of New York. Mus. rep. 20 (for 1866) 1867. p.403-10.

Peck. Reports as Botanist. Mus. rep. 21-55 (for 1867-1901) 1869-1902.

Also published separately.

For page references and contents, *see* List of publications, p.263.

Index to rep. 22-38 in Mus. rep. 41, p.94-122.

 " 39-48 " 50, 1:143-59.

Page references in above mentioned indexes are to botanist's edition.

Report for 1898 Mus. bul. 25, p.628-42 contains list of changed names in 6th ed. of Gray's *Manual and Illustrated Flora*.

Peck. Report on Botany. 1871-73. Alb. Inst. Trans. 1872. 7:35-43, 186-204; 1873. 8:152-66.

Peck. Fertilization of Flowers. Alb. Inst. Trans. 1887. 11:155-68.

Peck. Contributions to the Botany of the State of New York. Mus. bul. 2. 1887. 66p. 2pl.

Contents: Descriptions of New Species of New York Fungi; Additions to the Flora of New York in 1883; Descriptions of New York Species of Fungi belonging to the Genera *Paxillus*, *Cantharellus* and *Craterellus*; Names of New York Species of *Pyrenomycetous* Fungi; Descriptions of New York Species of *Viscid* Boleti. Titles enumerated in 37th report, but articles not printed there.

Peck. Plants of North Elba. Mus. bul. 28. 1899. p.65-266. map. *Same*, Mus. rep. 53 (for 1899) 1901. 1:65-266. map.

Map of North Elba, Essex county (uncolored) 12x16cm.

Peck. List of Changed Names of New York Species. Bot. rep. 52 (for 1898) 1900. p.628-42. *Same*, Mus. rep. 52 (for 1898) 1900. 1:628-42.

References to Various Essays and Writings on the Natural History of New York. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.158; 5 (for 1851) 1852. p.57.

Stevens. Flora of the Adirondacks. Alb. Inst. Trans. 1870. 6:67-82.

Torrey. Report on Botanical Department of Survey. Assembly doc. 1837, no.161, p.9-10 (ed.2, p.11-12); 1840, no.50, p.113-97.

Torrey. Flora of the State of New York. 1843. 2v. il. pl. sq.Q.

For contents, *see* List of publications, p.269.

Veeder. Uses and Relations of the Study of Botany. Regents rep. 91 (for 1877) 1878. p.439-42.

See also Carex; Fruits; Fungi; Mosses; Paleobotany; Ranunculus; Weeds.

Boulders, *see* Drift; Pleistocene.

- Boundaries of New York.** Peters. Longitude of the Western Boundary Line of the State of New York. *Mus. rep.* 20 *rev. ed.* (for 1866) 1870. p.143-57. 2pl.
- Pratt. Report of the Regents on the Boundaries of New York. 1884. 2v.
- Bournonite.** Whitlock. Bournonite. *Mus. bul.* 58. 1902. p.61.
- Brachiopoda.** De Kay. Brachiopoda. *Zool. N. Y.* 1843. v.5. pt5. p.166-67.
- Brachiopoda (paleozoic).** Beecher. Statement on the Condition of the Work on the Brachiopoda, Palaeontology of New York, v.8. *Mus. rep.* 41 (for 1887) 1888. p.383-84.
- Beecher & Clarke. Development of some Silurian Brachiopoda. *Mus. mem.* 1. 1889. 95p. 8pl.
- Clarke. Genera of the Palaeozoic Brachiopoda. *Geol. rep.* 8 (for 1888) 1889. p.43-46. *Same*, *Mus. rep.* 42 (for 1888) 1889. p.889-93.
- — — *revised.* *Geol. rep.* 10 (for 1890) 1891. p.15-18. *Same*, *Mus. rep.* 44 (for 1890) 1892. p.45-48.
- Clarke. Evolution of the Genera of the Palaeozoic Brachiopoda. *Geol. rep.* 13 (for 1893) 1894. p.609-46. *Same*, *Mus. rep.* 47 (for 1893) 1894. p.803-40.
- Clarke. Oriskany Species of Becraft Mountain. *Mus. mem.* 3. 1900. p.38-59. *Same*, *Mus. rep.* 53 (for 1899) 1901. 2:38-59.
- Clarke. A New Genus of Paleozoic Brachiopods, *Eunoa*, with some considerations on *Discinocaris*, *Spathiocaris* and *Cardiocaris*. *Mus. bul.* 52. 1902. p.606-15.
- Clarke. Type Specimens in New York State Museum. *Mus. bul.* 65. *In press.*
- Grabau. Brachiopoda of Hamilton Group. *Geol. rep.* 16 (for 1896) 1899. p.261-85. *Same*, *Mus. rep.* 50 (for 1896) 1899. 2:261-85.
- Grabau. Brachiopoda of Niagara Region. *Mus. bul.* 45. 1901. p.177-206. *Same*, *Mus. rep.* 54 (for 1900) 1902. 4:177-206.
- Hall. Brachiopoda of Lower Silurian. *Pal. N. Y.* 1847. v.1. (various page references, *see* Table, p.323).
- Hall. Brachiopoda of Medina Sandstone. *Pal. N. Y.* 1852. 2:8-14.
- Hall. Brachiopoda of Clinton Group. *Pal. N. Y.* 1852. 2:53-82.
- Hall. Brachiopoda of Niagara Group. *Pal. N. Y.* 1852. 2:249-81.
- Hall. Brachiopoda of Coralline Limestone. *Pal. N. Y.* 1852. 2:326-30.
- Hall. Brachiopoda of Lower Helderberg Group. *Mus. rep.* 10 (for 1856) 1857. p.41-109. *Pal. N. Y.* 1859. 3:153-262.
- Hall. Brachiopoda of Oriskany Sandstone. *Mus. rep.* 10 (for 1856) 1857. p.62-109. *Pal. N. Y.* 1859. 3:406-64.
- Hall. Fossil Brachiopoda of the Upper Helderberg, Hamilton, Portage and Chemung Groups. *Mus. rep.* 10 (for 1856) 1857. p.109-80. *Pal. N. Y.* 1867. v.4. 428p. 99pl.
- Hall. New Species and Genera. *Pal. N. Y.* 1859. 3:481-91.
- Hall. Genus *Nucleospira*. *Mus. rep.* 12 (for 1858) 1859. p.23-34.
- Hall. Genus *Eatonia*. *Mus. rep.* 12 (for 1858) 1859. p.34-37.
- Hall. Genus *Rensselaeria*. *Mus. rep.* 12 (for 1858) 1859. p.38-41.
- Hall. Genus *Camarium*. *Mus. rep.* 12 (for 1858) 1859. p.42-44.
- Hall. On Genus *Rhynchonella*. *Mus. rep.* 13 (for 1859) 1860. p.65-69; 20 *rev. ed.* (for 1866) 1870. p.309-13.
- Hall. Observations on *Orthis*, *Skenidium*, *Ambocoelia* and *Vitulina*. *Mus. rep.* 13 (for 1859) 1860. p.69-73.
- Hall. Observations on the Genera *Athyris* (=Spirigera), *Merista* (=Camarium), *Meristella* and *Leiorhynchus*. *Mus. rep.* 13 (for 1859) 1860. p.73-75; 15 (for 1861) 1862. p.176-81; 20 (for 1866) 1867. p.258-66, 269-73.

Brachiopoda (paleozoic) (continued)

- Hall. Descriptions of New Species of Fossils from the Hamilton Group of Western New York, with notices of others from same horizon in Iowa and Indiana. Mus. rep. 13 (for 1859) 1860. p.76-94; 14 (for 1860) 1861. p.99-103; 15 (for 1861) 1862. p.181-91.
- Hall. A New Genus of Brachiopoda, *Zygospira*. Mus. rep. 15 (for 1861) 1862. p.154-55.
- Hall. Descriptions of New Species of Brachiopoda from the Upper Helderberg, Hamilton and Chemung Groups. Mus. rep. 16 (for 1862) 1863. p.19-37.
- Hall. Observations upon Some of the Brachiopoda, with Reference to the Characters of the Genera *Cryptonella*, *Centronella*, *Meristella*, *Trematospira*, *Rhynchospira*, *Retzia*, *Leptocoelia* and Allied Forms. Mus. rep. 16 (for 1862) 1863. p.38-61, 223.
Paper read before the Albany Institute, Feb. 3, 1863 and published also in Alb. Inst. Trans. 1858-64. 4:125-48.
- Hall. Observations upon the Genus *Streptorhynchus*, with remarks upon some species heretofore referred to the genera *Strophomena* and *Orthis*. Mus. rep. 16 (for 1862) 1863. p.61-66.
- Hall. Brachiopoda of Potsdam Sandstone. Mus. rep. 16 (for 1862) 1863. p.125-35.
- Hall. Genus *Streptorhynchus* and *Strophodonta*. Mus. rep. 20 (for 1866) 1867. p.241.
- Hall. Genus *Chonetes*. (Fischer, 1837). Mus. rep. 20 (for 1866) 1867. p.242-44.
- Hall. Remarks on the Genera *Productus*, *Strophalosia*, *Aulosteges* and *Productella*. Mus. rep. 20 (for 1866) 1867 p.245-50.
- Hall. On the Genera *Spirifera*, *Cyrtina* and Allied Genera. Mus. rep. 20 (for 1866) 1867. p.251-57.
- Hall. Note upon the Genus *Zygospira* and its Relations to *Atrypa*. Mus. rep. 20 (for 1866) 1867. p.267-68.
- Hall. Genus *Eichwaldia*. Mus. rep. 20 (for 1866) 1867. p.274-78.
- Hall. Genus *Tropidoleptus*. Mus. rep. 20 (for 1866) 1867. p. 279-81.
- Hall. Brachiopoda of Niagara Group. Mus. rep. 20 (for 1866) 1867. p.368-74.
- Hall. New or Imperfectly Known Forms among the Brachiopoda, etc. Mus. rep. 23 (for 1869) 1873. p.244-47. pl.13.
- Hall. Brachiopoda of Niagara Group in Central Indiana. Mus. rep. 28 (for 1874) 1879. p.148-70.
- Hall. On the Structure of the Shell in the Genus *Orthis*. Mus. rep. 36 (for 1882) 1883. p.73-75. pl.3-4.
- Hall. Brachiopoda, Plates and Explanations. Geol. rep. 2 (for 1882) 1883. pl.34-61.
- Hall. Report on Palaeontology of New York, v.8. Mus. rep. 41 (for 1887) 1888. p.381-82.
- Hall. Statement Regarding Work done for v.8 of Palaeontology of New York. Geol. rep. 8 (for 1888) 1889. p.27-42; 9 (for 1889) 1890. p.7-16; 10 (for 1890) 1891. p.7-14; 11 (for 1891) 1892. p.12-21; 12 (for 1892) 1893. p.14-25; 13 (for 1893) 1894. p.601-8. *Same*, Mus. rep. 42 (for 1888) 1889. p.373-88; 43 (for 1889) 1890. p.209-18; 44 (for 1890) 1892. p.37-44; 45 (for 1891) 1892. p.328-37; 46 (for 1892) 1893. p.160-71; 47 (for 1893) 1894. p.795-802; 48 (for 1894) 1895. 1:44.
- Hall. List of Plates of Brachiopoda for Palaeontology of New York, v.8, showing the Condition of the Work. Geol. rep. 8 (for 1888) 1889. p.48-49. *Same*, Mus. rep. 42 (for 1888) 1889. p.394-95.
- Hall. List of Sections of the Shells of Genera and Species of Brachiopoda prepared for the Study of the Microscopic Structure. Geol. rep. 10 (for 1890) 1891. p.22-23. *Same*, Mus. rep. 44 (for 1890) 1892. p.52-53.

Brachiopoda (paleozoic) (continued)

- Hall. Preliminary Notice of *Newberria*, a New Genus of Brachiopods; with remarks on its relations to *Rensselaeria* and *Amphigenia*. Geol. rep. 10 (for 1890) 1891. p.91-98. pl.5-6.
- Hall. List of the Genera of the Palaeozoic Brachiopoda in *Palaeontology of New York*, v.8. pt.1. Geol. rep. 11 (for 1891) 1892. p.15-21. *Same*, Mus. rep. 45 (for 1891) 1892. p.331-37.
- Hall & Clarke. Introduction to the Study of the Brachiopoda, intended as a Hand Book for the Use of Students. Geol. rep. 11 (for 1891) 1892. p.133-300. illus. 22pl. map. Pt2, Geol. rep. 13 (for 1893) 1894. p.749-943. illus. pl.23-54. *Same*, Mus. rep. 45 (for 1891) 1892. p.449-616. map. Pt2, Mus. rep. 47 (for 1893) 1894. p.943-1137. illus.
- Chart of the world showing distribution of recent Brachiopoda, 43x28.5cm.
- Hall & Clarke. Introduction to the Study of the Genera of the Palaeozoic Brachiopoda. Pal. N. Y. 1892. v.8. pt.1. 367p. 44pl.; 1894. v.8. pt.2. 394p. 84pl.
- Hall & Clarke. Descriptions of New Species figured in *Palaeontology of New York*, v.8. pt.2. Geol. rep. 13 (for 1893) 1894. p.647-57. *Same*, Mus. rep. 47 (for 1893) 1894. p.841-51.
- Hall & Clarke. New Species of Brachiopoda described in *Palaeontology of New York*, v.8. pt.1 and 2. Geol. rep. 14 (for 1894) 1895. p.16-18, 323-72. 14pl. *Same*, Mus. rep. 48 (for 1894) 1895. 2:16-18, 323-72. 14pl.
- Illustrations showing microscopic structure of Strophomenoid Brachiopoda. Mus. rep. 35 (for 1881) 1884. pl.22.
- List of Genera and Species of Brachiopoda, of which Sections have been prepared for the Microscope. Mus. rep. 36 (for 1882) 1883. p.26.
- Ruedemann. New Species of Brachiopoda of Hudson River Beds near Albany. Mus. bul. 42. 1901. p.569-72. *Same*, Mus. rep. 54 (for 1900) 1902. 3:569-72.
- Ruedemann. Brachiopoda of Trenton Conglomerate of Rysedorph Hill. Mus. bul. 49. 1901. p.14-27.
- Schuchert. On *Syringothyris*, Winchell, and its American Species. Geol. rep. 9 (for 1889) 1890. p.28-37. *Same*, Mus. rep. 43 (for 1889) 1890. p.230-39.
- Schuchert. List of Species of the American Palaeozoic *Orthis*, *Spirifera*, *Spiriferina* and *Syringothyris*. Geol. rep. 9 (for 1889) 1890. p.38-55. *Same*, Mus. rep. 43 (for 1889) 1890. p.240-57.
- Whitfield. Internal Appendages of the Genus *Atrypa*, with a notice of the discovery of a loop connecting the spiral cones. Mus. rep. 20 (for 1866) 1867 p.141-44. 1pl.
- Wood. Brachiopoda of *Marcellus* (Stafford) Limestones of Lancaster, Erie Co. N. Y. Mus. bul. 49. 1901. p.157-67.
- Brecciated limestone.** Mather. Brecciated and Conglomerate Limestone. Geol. N. Y. pt.1. 1843. p.406-9.
- Bricks and brick manufacture.** Bishop. Brick Manufacture of Erie County. Geol. rep. 15 (for 1895) 1897. p.342-44. *Same*, Mus. rep. 49 (for 1895) 1898. 2:342-44.
- Lincoln. Brick and Tile Manufacture of Seneca County. Geol. rep. 14 (for 1894) 1895. p.105-11. *Same*, Mus. rep. 48 (for 1894) 1895. 2:105-11.
- Luther. Brick Manufacture of Onondaga County. Geol. rep. 15 (for 1895) 1897. p.288-91. *Same*, Mus. rep. 49 (for 1895) 1898. 2:288-91.
- Mather. Bricks Manufactured in Columbia and Dutchess Counties. Geol. rep. 1st dist. (for 1837) 1838. p.159-60.
- Mather. Brick Manufacture in Dutchess, Westchester and Putnam Counties. Geol. rep. 1st dist. (for 1838) 1839. p.77-79.
- Mather. Brick Manufacture of the Hudson Valley. Geol. N. Y. pt.1. 1843. p.142-45.

Bricks and brick manufacture (*continued*)

- Merrill. Directory of Clay Manufacturers. Mus. bul. 15. 1895. p.502-18.
Same, Mus. rep. 48 (for 1894) 1895. 1:502-18 (2d paging).
- Nason. Brick and Tile Manufacturers and Product, Albany County. Geol. rep. 13 (for 1893) 1894. p.284. *Same*, Mus. rep. 47 (for 1893) 1894. p.478.
- Nason. Brick Manufacture of Ulster County. Geol. rep. 13 (for 1893) 1894. p.391-93, 406. *Same*, Mus. rep. 47 (for 1893) 1894. p.585-87, 600.
- Ries. Quaternary Deposits of the Hudson River Valley between Croton and Albany, with notes on brick clays and the manufacture of brick. Geol. rep. 10 (for 1890) 1891. p.110-55.
- Ries. Bricks and Brick Manufacture. Mus. bul. 12. 1895. p.148-251. *Same*, Mus. rep. 48 (for 1894) 1895. 1:148-251 (2d paging).
- — — *revised and enlarged*. Mus. bul. 35. 1900. p.643-757. *Same*, Mus. rep. 54 (for 1900) 1902. 2:643-757.
- Ries. Brick Clays of Orange County. Geol. rep. 15 (for 1895) 1897. p.468-69. *Same*, Mus. rep. 49 (for 1895) 1898. 2:468-69.
- Ries. Characters of Brick Clays; Burning. Mus. bul. 35. 1900. p.636-42. *Same*, Mus. rep. 54 (for 1900) 1902. 2:636-42.
- Ries. Analyses of Brick Clays. Mus. bul. 35. 1900. p.882-99. *Same*, Mus. rep. 54 (for 1900) 1902. 2:882-99.
- Ries. Directory of Manufacturers. Mus. bul. 35. 1900. p.913-25. *Same*, Mus. rep. 54 (for 1900) 1902. 2:913-25.
- Ries. Refractory Bricks. Mus. bul. 44. 1901. p.667. *Same*, Mus. rep. 54 (for 1900) 1902. 3:667.
- Brine springs**, *see* Salt.
- Brochantite**. Whitlock. Brochantite. Mus. bul. 58. 1902. p.126.
- Brockport quadrangle**. Clarke, Ruedemann & Luther. Contact Lines of Upper Siluric Formations. Mus. bul. 52. 1902. p.517-23.
- Bromid of magnesium**. Beck. Hydrobromate of Magnesia. Min. N. Y. 1842. p.256.
- Brooklyn**. Smock. Stone Construction in. Mus. bul. 10. 1890. p.317-18.
- Brooklyn quadrangle**. Woodworth. Brooklyn Quadrangle. Mus. bul. 48. 1901. p.648-50. *Same*, Mus. rep. 54 (for 1900) 1902. 4:648-50.
- Broome county**. Beck. Mineralogy. Min. rep. (for 1839) 1840. p.55.
- Dickinson. Bluestone Quarries. Mus. bul. 61. *In press*.
- Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.552-53. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:552-53.
- — — Ent. rep. 16 (for 1900) 1901. p.1002-3. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1002-3.
- Ries. Brick Yards. Mus. bul. 12. 1895. p.211-12, 250. *Same*, Mus. rep. 48 (for 1894) 1895. 1:211-12, 250 (2d paging).
- — — Mus. bul. 35. 1900. p.731. *Same*, Mus. rep. 54 (for 1900) 1902. 2:731.
- Vanuxem. Broome County. Geol. N. Y. pt3. 1842. p.294-96.
- Brown hematite**, *see* Limonite.
- Brown sandstone**. Emmons. Brown Sandstone or Granular Quartz. Ag. N. Y. 1846. 1:83-86.
- Brown spar**, *see* Ankerite.
- Brown tail moth**. Felt. Brown Tail Moth. Ent. rep. 18 (for 1902). p.94-99. *In press*.
- Brucite**. Beck. Brucite. Min. N. Y. 1842. p.248-49.
- Whitlock. Brucite. Mus. bul. 58. 1902. p.78.

- Bryozoa (paleozoic).** Beecher. Synoptical Table of the Genera and Species described in v.6 of the Palaeontology of New York. Mus. rep. 41 (for 1887) 1888. p.363-75.
- Clarke. Oriskany Species of Becraft Mountain. Mus. mem. 3. 1900. p.59-62. *Same*, Mus. rep. 53 (for 1899) 1901. 2:59-62.
- Clarke. Type Specimens in New York State Museum. Mus. bul. 65. *In press*.
- Grabau. Bryozoa of Hamilton Group. Geol. rep. 16 (for 1896) 1899. p.286-87. *Same*, Mus. rep. 50 (for 1896) 1899. 2:286-87.
- Grabau. Bryozoa of Niagara Region. Mus. bul. 45. 1901. p.161-76. *Same*, Mus. rep. 54 (for 1900) 1902. 4:161-76.
- Hall. Bryozoa of Lower Silurian. Pal. N. Y. 1847. v.1 (various page references).
- Hall. Bryozoa of Clinton and Niagara Group. Pal. N. Y. 1852. 2:50-52, 144-73.
- Hall. Descriptions of Bryozoa and Corals of the Lower Helderberg Group. Mus. rep. 26 (for 1872) 1874. p.93-115.
- *revised*. Mus. rep. 32 (for 1878) 1879. p.141-76.
- 33 plates and explanations illustrating Corals and Bryozoa of Upper and Lower Helderberg Groups. Geol. rep. 2 (for 1882) 1883.
- Hall. Corals and Bryozoa of Niagara Group in Central Indiana. Mus. rep. 28 (for 1874) 1879. p.106-26.
- Hall. Bryozoans of the Upper Helderberg and Hamilton Groups. Alb. Inst. Trans. 1883. 10:145-97.
Read before the Albany Institute, Mar. 29, 1881.
- Hall. Discussion upon the Manner of Growth, Variation of Form and Characters of the Genus Fenestella, and its Relations to Hemitrypa, Polypora, Retepora, Cryptopora, etc. Geol. rep. 2 (for 1882) 1883. p.5-16. illus.; 4 (for 1884) 1885. p.35-45, illus. 2pl.
- Hall. Bryozoa (Fenestellidae) of the Hamilton Group. Mus. rep. 36 (for 1882) 1883. p.57-72.
- Plates and descriptions. Geol. rep. 6 (for 1886) 1887. p.41-70, 7pl. Mus. rep. 41 (for 1887) 1888. pl.8-15.
- Hall. Descriptions of Bryozoans of the Hamilton Group (Fenestellidae excepted). Geol. rep. 3 (for 1883) 1884. p.5-61.
- Hall. Bryozoa of the Upper Helderberg Group. 14pl. with explanations. Geol. rep. 5 (for 1885) 1886.
These plates appeared subsequently in Pal. N. Y. v.6, 1887.
- Hall & Simpson. Corals and Bryozoa of the Lower and Upper Helderberg and Hamilton Groups. Pal. N. Y. 1887. v.6. 298p. 67pl.
- Hall. Description of New Species of Fenestellidae of the Lower Helderberg, with explanation of plates illustrating species of the Hamilton group. Mus. rep. 41 (for 1887) 1888. p.393-94, pl.8-15.
- Hall. Continuation of Descriptions of Bryozoa not printed in v.6. Palaeontology of New York. Geol. rep. 10 (for 1890) 1891. p.35-57. *Same*, Mus. rep. 44 (for 1890) 1892. p.65-87.
- Ruedemann. Bryozoa of Trenton Conglomerate of Rysedorph Hill. Mus. bul. 49. 1901. p.12-14.
- Simpson. Discussion of the Different Genera of Fenestellidae. Geol. rep. 13 (for 1893) 1894. p.685-727. illus. *Same*, Mus. rep. 47 (for 1893) 1894. p.879-921. illus.
- Simpson. Glossary and Explanations of Specific Names of Bryozoa and Corals described in v.6. Palaeontology of New York and other Reports. Geol. rep. 13 (for 1893) 1894. p.729-47. *Same*, Mus. rep. 47 (for 1893) 1894. p.923-41.

Bryozoa (paleozoic) (continued)

Simpson. Handbook of the Genera of the North American Palaeozoic Bryozoa. Geol. rep. 14 (for 1894) 1895. p.18-19, 403-669. illus. 30pl. *Same*, Mus. rep. 48 (for 1894) 1895. 2:18-19, 403-669. illus. 30pl. Contains a bibliography.

Wood. Bryozoa of Marcellus (Stafford) Limestones of Lancaster, Erie Co. N. Y. Mus. bul. 49. 1901. p.156.

Bucholzite. Beck. Bucholzite. Min. N. Y. 1842. p.364. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.142-43.

Buffalo. Clinton. Preliminary Lists of the Plants of Buffalo and its Vicinity. Mus. rep. 17 (for 1863) 1864. p.24-35.

Smock. Stone Construction in. Mus. bul. 10. 1890. p.346-51.

Bugs, *see* Hemiptera.

Building stone. Bishop. Stone Quarries of Erie County. Geol. rep. 15 (for 1895) 1897. p.330-35. *Same*, Mus. rep. 49 (for 1895) 1898. 2:330-35. Carr. Materials for Construction. Geol. rep. 3d dist. (for 1839) 1840. p.387.

Catalogue of Building Stone in the State Museum (old collection). Mus. rep. 48 (for 1894) 1895. 1:21-27 (1st paging).

Cushing. Building Stone of Franklin County. Geol. rep. 18 (for 1898) 1899. p.126. *Same*, Mus. rep. 52 (for 1898) 1900. 2:126.

Dickinson. Quarries of Bluestone and other Sandstones in the Upper Devonian of New York State. Mus. bul. 61. *In press.*

Eckel. Quarry Industry in Southeastern New York. Geol. rep. 20 (for 1900) 1902. p.141-76. map. *Same*, Mus. rep. 54 (for 1900) 1902. 1:141-76. map.

Map showing location of quarries, 28.5x38cm.

Four-inch Cubes of Building Stone exhibited at the World's Columbian Exposition. Mus. rep. 48 (for 1894) 1895. 1:31 (1st paging).

Hall. Building Stones of Chautauqua County. Geol. rep. 4th dist. (for 1840) 1841. p.176-78. Geol. N. Y. pt4. 1843. p.497.

Hall. Building Stones of Monroe County. Geol. rep. 4th dist. (for 1837) 1838. p.345-46. Geol. N. Y. pt4. 1843. p.432-33.

Hall. Building Stones of Niagara County. Geol. rep. 4th dist. (for 1837) 1838. p.368-70. Geol. N. Y. pt4. 1843. p.447-48.

Hall. Building Stones of Orleans County. Geol. rep. 4th dist. (for 1837) 1838. p.356-58. Geol. N. Y. pt4. 1843. p.438-39.

Hall. Building Stones of Wayne County. Geol. rep. 4th dist. (for 1837) 1838. p.324-25. Geol. N. Y. pt4. 1843. p.421.

Hall. Report on Building Stones, (including catalogue of stones in museum collection). Mus. rep. 39 (for 1885) 1886. p.186-225.

List of Building Stones in the Economic Collection. Mus. rep. 27 (for 1873) 1875. p.57-71.

Luther. Building Stone of Onondaga County. Geol. rep. 15 (for 1895) 1897. p.273-74, 277-79. *Same*, Mus. rep. 49 (for 1895) 1898. 2:273-74, 277-79.

Mather. Building Stones and Marbles. Geol. rep. 1st dist. (for 1839) 1840. p.238-39. Geol. N. Y. pt1. 1843. p.326-28.

Merrill. Directory of Quarrymen. Mus. bul. 15. 1895. p.451-93. *Same*, Mus. rep. 48 (for 1894) 1895. 1:451-93 (2d paging).

Nason. Limestone for Building in Albany County. Geol. rep. 13 (for 1893) 1894. p.279. *Same*, Mus. rep. 47 (for 1893) 1894. p.473.

Ries. Building Stone of Orange County. Geol. rep. 15 (for 1895) 1897. p.470. *Same*, Mus. rep. 49 (for 1895) 1898. 2:470.

Ries. Limestones of New York and their Economic Value. Geol. rep. 17 (for 1897) 1899. p.355-467. *Same*, Mus. rep. 51 (for 1897) 1899. 2:355-467.

Building stone (*continued*)

- Smock. Report of Field Work for 1886, (building stones). Mus. rep. 40 (for 1886) 1887. p.35-36.
- Smock. Building Stone in the State of New York. Mus. bul. 3. 1888. 152p. map.
- — — *revised and enlarged*. Mus. bul. 10, 1890. p.191-395. map. tab.
Map of New York showing location of quarries, 58x60cm.
- Smock. Geology and Geographic Distribution, *revised* by Merrill. Mus. bul. 15. 1895. p.372-448. *Same*, Mus. rep. 48 (for 1894) 1895. 1:372-448 (2d paging).
- — — Mus. bul. 19. 1898. p.181-204. *Same*, Mus. rep. 51 (for 1897) 1899. 1:181-204.
- Specimens of Building Stones of the State of New York. Mus. rep. 20 (for 1866) 1867. p.55-57; 21 (for 1867) 1871. p.17-19.
- Ten-inch Cubes of Building Stone exhibited at the World's Columbian Exposition. Mus. rep. 48 (for 1894) 1895. 1:28-30 (1st paging).
- Bumble flower beetle.** Lintner. Bumble Flower Beetle. Ent. rep. 1 (for 1881) 1882. p.232-39.
- Butterflies**, *see* Lepidoptera.
- Cabbage caterpillar.** Felt. Zebra Caterpillar. Ent. rep. 14 (for 1898) 1898. p.201-7. (Mus. bul. 23). *Same*, Mus. rep. 52 (for 1898) 1900. 1:201-7.
- Lintner. Zebra Cabbage Caterpillar. Ent. rep. 5 (for 1888) 1889. p.206-10. *Same*, Mus. rep. 42 (for 1888) 1889. p.206-10.
- Cacoxenite.** Beck. Cacoxenite. Min. rep. (for 1839) 1840. p.110. Min. N. Y. 1842. p.402-3. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.149.
- Caddis flies**, *see* Neuropteroid insects.
- Cadmia.** Beck. Oxide of Zinc or Cadmia. Min. N. Y. 1842. p.411-12.
- Calamin.** Beck. Calamine. Min. N. Y. 1842. p.448.
- Whitlock. Calamin. Mus. bul. 58. 1902. p.106.
- Calcareous minerals.** Beck. Calcareous Minerals. Min. N. Y. 1842. p.61-88.
See also Gypsum; Marbles; Marl; Waterlime.
- Calcareous sandstone**, *see* Calciferous sandrock.
- Calcareous shale.** Hall. Calcareous Shale. Geol. rep. 4th dist. (for 1837) 1838. p.300-2.
See also Niagara group.
- Calcareous spar.** Beck. Calcareous Spar. Min. rep. (for 1836) 1837. p.58 (ed. 2, p.60). Min. N. Y. 1842. p.215-30. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.124-26.
- Calcareous tufa.** Beck. Concentrated Carbonate of Lime. Min. N. Y. 1842. p.230-34.
- Carr. Lake Marl and Tufa. Geol. rep. 3d dist. (for 1839) 1840. p.385.
- Conrad. Calcareous Tufa. Geol. rep. 3d dist. (for 1836) 1837. p.179-80 (ed.2, p.181-82).
- Geddes. Tufa of Onondaga County. Ag. Soc. Trans. 19 (for 1859) 1860. p.254-56.
- Hall. Lake Marl and Tufa. Geol. rep. 4th dist. (for 1838) 1839. p.332-35; (for 1839) 1840. p.445-48. Geol. N. Y. pt4. 1843. p.360-61.
- Hall. Tufa and Marl in Monroe County. Geol. rep. 4th dist. (for 1837) 1838. p.337-40. Geol. N. Y. pt4. 1843. p.428-30.
- Horsford. Marl and Tufa of Cattaraugus County. Geol. rep. 4th dist. (for 1839) 1840. p.461-62.
- Mather. Alluvions from Solution in Columbia and Dutchess Counties. Geol. rep. 1st dist. (for 1837) 1838. p.155-56.
- Mather. Alluvions from Springs. Geol. rep. 1st dist. (for 1839) 1840. p.225-26.

Calcareous tufa (*continued*)

- Mather. Calcareous Alluvions. Geol. N. Y. pt1. 1843. p.79-82.
- Ries. Calcareous Tufa of Monroe County. Mus. bul. 44. 1901. p.797-98.
Same, Mus. rep. 54 (for 1900) 1902. 3:797-98.
- Vanuxem. Limestone, Marl and Tufa. Geol. rep. 4th dist. (for 1836) 1837. p.191-93 (ed.2, p.193-95).
- Vanuxem. Tufa and Lake Marl. Geol. rep. 3d dist. (for 1838) 1839. p.278-81.
- Vanuxem. Calcareous Tufa. Geol. N. Y. pt3. 1842. p.226-27.
- Calciferous sandrock (Beekmantown limestone)**. Bishop. Calciferous Sandstone of Erie County. Geol. rep. 15 (for 1895) 1897. p.391. *Same*, Mus. rep. 49 (for 1895) 1898. 2:391.
- Conrad. Calcareous Sandstone of the Mohawk Valley. Geol. rep. 3d dist. (for 1836) 1837. p.160-62 (ed.2, p.162-64).
- Conrad. Calciferous Sandrock of Eaton. Pal. rep. (for 1837) 1838. p.114; (for 1840) 1841. p.31.
- Cumings. Historical Sketch. Mus. bul. 34. 1900. p.419-21. *Same*, Mus. rep. 54 (for 1900) 1902. 1:419-21.
- Cushing. Calciferous Sandrock of Clinton County. Geol. rep. 13 (for 1893) 1894. p.476, 479-81. *Same*, Mus. rep. 47 (for 1893) 1894. p.670, 673-75.
- — — Geol. rep. 15 (for 1895) 1897. p.512-73. *Same*, Mus. rep. 49 (for 1895) 1898. 2:512-73.
- — — Geol. rep. 19 (for 1899) 1901. p.r66-67. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r66-67.
- Cushing. Calciferous sandrock of Franklin County. Geol. rep. 18 (for 1898) 1899. p.123-25. *Same*, Mus. rep. 52 (for 1898) 1900. 2:123-25.
- Darton. Calciferous Sandrock of Mohawk Valley. Geol. rep. 13 (for 1893) 1894. p.417-21. *Same*, Mus. rep. 47 (for 1893) 1894. p.611-15.
- ^aEaton. Calciferous Sandrock. Geol. and Agric. Surv. adjoining the Erie Canal. 1824. p.32, 73.
- Emmons. Calciferous Sandrock of Eaton. Geol. rep. 2d dist. (for 1836) 1837. p.117-19 (ed.2, p.119-21).
- Emmons. Calciferous Sandrock. Geol. N. Y. pt2. 1842. p.105-6. Ag. N. Y. 1846. 1:118-22.
- Emmons. Calciferous Sandrock of Clinton County. Geol. N. Y. pt2. 1842. p.310-15.
- Emmons. Calciferous Sandrock of Essex County. Geol. N. Y. pt2. 1842. p.270.
- Emmons. Calciferous Sandrock of Franklin County. Geol. N. Y. pt2. 1842. p.332-33.
- Emmons. Calciferous Sandrock of Jefferson County. Geol. rep. 2d dist. (for 1839) 1840. p.324. Geol. N. Y. pt2. 1842. p.380-82.
- Emmons. Calciferous Sandrock of St Lawrence County. Geol. N. Y. pt2. 1842. p.361-63.
- Emmons. Calciferous Sandrock of Warren County. Geol. N. Y. pt2. 1842. p.179-80.
- Emmons. Fossils. Geol. N. Y. pt2. 1842. p.106, 179, 311-14.
- Fitch. Calciferous Sandstone of Washington County. Ag. Soc. Trans. 9 (for 1849) 1850. p.825-26.
- Hall. Calciferous Sandrock. Geol. N. Y. pt4. 1843. p.28. Pal. N. Y. 1859. 3:4-11.
- Hall. Organic Remains. Geol. N. Y. pt4. 1843. p.28. Pal. N. Y. 1847. 1:5-13.

Calciferous sandrock (*continued*)

- Kemp. Calciferous Sandrock of Essex County. Geol. rep. 13 (for 1893) 1894. p.446-72. *Same*, Mus. rep. 47 (for 1893) 1894. p.640-66.
- — — Geol. rep. 15 (for 1895) 1897. p.596-98. *Same*, Mus. rep. 49 (for 1895) 1898. 2:596-98.
- Kemp & Newland. Calciferous Limestone of Adirondacks. Geol. rep. 17 (for 1897) 1899. p.505-52. *Same*, Mus. rep. 51 (for 1897) 1899. 2:505-52.
- Kemp, Newland & Hill. Calciferous Sandrock of Adirondacks. Geol. rep. 18 (for 1898) 1899. p.145, 148. *Same*, Mus. rep. 52 (for 1898) 1900. 2:145, 148.
- Kemp & Hill. Calciferous Limestone of Montgomery and Fulton Counties. Geol. rep. 19 (for 1899) 1901. p.r33. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r33.
- Kemp & Hill. Calciferous Limestone of Warren County. Geol. rep. 19 (for 1899) 1901. p.r24, r26. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r24, r26.
- Lincklaen. Calciferous Sandstone; Fossils. Mus. rep. 14 (for 1860) 1861. p.37-38.
- Mather. Calciferous Sandstone. Geol. rep. 1st dist. (for 1840) 1841. p.101. Geol. N. Y. pt.1. 1843. p.414-15.
- Mather. Calciferous Group. Geol. N. Y. pt.1. 1843. p.410-17.
- Merrill. Calciferous Group. Mus. bul. 19. 1898. p.146-47. *Same*, Mus. rep. 51 (for 1897) 1899. 1:146-47.
- Prosser & Cumings. Lower Silurian Formations on West Canada Creek and in the Mohawk Valley. Geol. rep. 15 (for 1895) 1897. p.627-59. *Same*, Mus. rep. 49 (for 1895) 1898. 2:627-59.
- Ries. Calciferous Limestones. Geol. rep. 17 (for 1897) 1899. p.358-59. *Same*, Mus. rep. 51 (for 1897) 1899. 2:358-59.
- — — *revised*. Mus. bul. 44. 1901. p.753-54. *Same*, Mus. rep. 54 (for 1900) 1902. 3:753-54.
- Ries. Calciferous Sandrock of Clinton County. Mus. bul. 44. 1901. p.774. *Same*, Mus. rep. 54 (for 1900) 1902. 3:774.
- Ries. Calciferous Limestones of Fulton County. Mus. bul. 44. 1901. p.783. *Same*, Mus. rep. 54 (for 1900) 1902. 3:783.
- Ries. Calciferous Sandrock of Herkimer County. Geol. rep. 17 (for 1897) 1899. p.437-38. *Same*, Mus. rep. 51 (for 1897) 1899. 2:437-38.
- — — *revised*. Mus. bul. 44. 1901. p.787. *Same*, Mus. rep. 54 (for 1900) 1902. 3:787.
- Ries. Calciferous Sandrock of Jefferson County. Mus. bul. 44. 1901. p.789. *Same*, Mus. rep. 54 (for 1900) 1902. 3:789.
- Ries. Calciferous Limestones of Montgomery County. Geol. rep. 17 (for 1897) 1899. p.442. *Same*, Mus. rep. 51 (for 1897) 1899. 2:442.
- — — *revised*. Mus. bul. 44. 1901. p.798-99. *Same*, Mus. rep. 54 (for 1900) 1902. 3:798-99.
- Ries. Calciferous Limestones of Rockland County. Geol. rep. 17 (for 1897) 1899. p.450-51. *Same*, Mus. rep. 51 (for 1897) 1899. 2:450-51.
- Ries. Calciferous Limestones of Saratoga County. Geol. rep. 17 (for 1897) 1899. p.452-53. *Same*, Mus. rep. 51 (for 1897) 1899. 2:452-53.
- — — *revised*. Mus. bul. 44. 1901. p.815-16. *Same*, Mus. rep. 54 (for 1900) 1902. 3:815-16.
- Ries. Calciferous Limestone of Warren County. Mus. bul. 44. 1901. p.824. *Same*, Mus. rep. 54 (for 1900) 1902. 3:824.
- Ries. Calciferous Limestones of Westchester County. Geol. rep. 17 (for 1897) 1899. p.462-67. *Same*, Mus. rep. 51 (for 1897) 1899. 2:462-67.
- Smock. Calciferous Sandrock. Mus. bul. 3. 1888. p.20-21; 10. 1890. p.210.

Calciferous sandrock (*continued*)

- — *revised* by Merrill. Mus. bul. 15. 1895. p.425-26. *Same*, Mus. rep. 48 (for 1894) 1895. 1:425-26 (2d paging).
- — *revised* by Merrill. Mus. bul. 19. 1898. p.199. *Same*, Mus. rep. 51 (for 1897) 1899. 1:199.
- Smock. Quarries. Mus. bul. 3. 1888. p.94-134; 10. 1890. p.238-55.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.432-47. *Same*, Mus. rep. 48 (for 1894) 1895. 1:432-47 (2d paging).
- Vanuxem. Calciferous Sandrock. Geol. rep. 3d dist. (for 1837) 1838. p.255, 282-83; (for 1839) 1840. p.369. Geol. N. Y. pt3. 1842. p.32-35.
- Vanuxem. Calciferous Sandrock in Lewis County. Geol. N. Y. pt3. 1842. p.267.
- Vanuxem. Calciferous Sandrock in Montgomery County. Geol. rep. 3d dist. (for 1837) 1838. p.259-61. Geol. N. Y. pt3. 1842. p.249.
- Vanuxem. Calciferous Sandrock in Oneida County. Geol. N. Y. pt3. 1842. p.259.
- Vanuxem. Calciferous Group. Geol. N. Y. pt3. 1842. p.30-38.
- Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.35.
- Walcott. Description of New Species of Fossils from the Calciferous Formation. Mus. rep. 32 (for 1878) 1879. p.129-31.
- See also* Beekmantown limestone.
- Calciferous slate.** Conrad. Calciferous Slate of Eaton. Pal. rep. (for 1837) 1838. p.112.
- See also* Clinton group; Niagara group; Salina group.
- Calcite.** Beck. Carbonate of Lime. Min. rep. (for 1838) 1839. p.18. Min. N. Y. 1842. p.214-34.
- Hunt. Calcite. Mus. rep. 21 (for 1867) 1871. p.70-71.
- Merrill. Localities. Mus. bul. 15. 1895. p.581. *Same*, Mus. rep. 48 (for 1894) 1895. 1:581 (2d paging).
- — Mus. bul. 19. 1898. p.234. *Same*, Mus. rep. 51 (for 1897) 1899. 1:234.
- Merrill. Calcite. Mus. bul. 19. 1898. p.120. *Same*, Mus. rep. 51 (for 1897) 1899. 1:120.
- Nason. Calcite. Mus. bul. 4. 1888. p.15-16.
- Nason. Calcites from Rossie, St Lawrence County. Mus. bul. 4. 1888. p.10-12.
- Whitlock. Calcite. Mus. bul. 58. 1902. p.79.
- Caledonia creek, N. Y.** Lintner. The Insects and other Animal Forms of Caledonia Creek, N. Y. Mus. rep. 32 (for 1878) 1879. p.75-99.
- Peck. The Mosses of Caledonia Creek. Mus. rep. 32 (for 1878) 1879. p.73-74.
- Cambrian.** Merrill. Cambrian. Mus. bul. 19. 1898. p.142-43. *Same*, Mus. rep. 51 (for 1897) 1899. 1:142-43.
- Merrill. Life of the Cambrian. Mus. bul. 19. 1898. p.146. *Same*, Mus. rep. 51 (for 1897) 1899. 1:146.
- See also* Potsdam sandstone; *also* names of classes of fossils, i. e. Cephalopoda, Crustacea, etc.
- Cambrian limestones.** Ries. Cambrian Limestones of Orange County. Geol. rep. 15 (for 1895) 1897. p.400, 405-10, 413. *Same*, Mus. rep. 49 (for 1895) 1898. 2:400, 405-10, 413.
- Ries. Cambrian Limestones of Dutchess County. Geol. rep. 17 (for 1897) 1899. p.433. *Same*, Mus. rep. 51 (for 1897) 1899. 1:433.
- Cambric (Taconic).** Clarke & Schuchert. Cambric. *See* New York series.
- Cambro-Silurian limestones.** Ries. Cambro-Silurian Limestones of New York County. Mus. bul. 44. 1901. p.800. *Same*, Mus. rep. 54 (for 1900) 1902. 3:800.

Cambro-Silurian limestones (*continued*)

- Ries. Cambro-Silurian Limestones of Orange and Rockland counties. Mus. bul. 44. 1901. p.808-9. *Same*, Mus. rep. 54 (for 1900) 1902. 3:808-9.
- Ries. Cambro-Silurian Limestones of Dutchess County. Mus. bul. 44. 1901. p.778. *Same*, Mus. rep. 54 (for 1900) 1902. 3:778.
- Ries. Cambro-Silurian Limestone of Rensselaer County. Mus. bul. 44. 1901. p.811-12. *Same*, Mus. rep. 54 (for 1900) 1902. 3:811-12.
- Ries. Cambro-Silurian Limestone of Westchester County. Mus. bul. 44. 1901. p.828-33. *Same*, Mus. rep. 54 (for 1900) 1902. 3:828-33.
- Canada.** Cushing. Comparison of Rocks of Canada and Adirondacks. Geol. rep. 20 (for 1900) 1902. p.r79-82. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r79-82.
- Emmons. Extension of the New York System in Canada. Geol. N. Y. pt2. 1842. p.407-8.
- Hall. Discussion of Formations of New York, comparison with Rocks of Canada. Pal. N. Y. 1859. v.3. introd. p.1-65.
- Canadian.** Clark & Schuchert. Canadian. Mus. mem. 3. 1900. p.10. *Same*, Mus. rep. 53 (for 1899) 1901. 2:10.
- Canandaigua lake.** Clarke. The Water Biscuit of Squaw Island, Canandaigua Lake, N. Y. Mus. bul. 39. 1900. p.195-98. *Same*, Mus. rep. 54 (for 1900) 1902. 3:195-98.
- Clarke. Paleontologic and stratigraphic map of Canandaigua lake region. Mus. bul. 52. 1902. p.422-25.
- Emerson. Notes upon Two Boulders of a Very Basic Eruptive Rock from the West Shore of Canandaigua Lake; and their Contact Phenomena upon the Trenton Limestone. Geol. rep. 12 (for 1892) 1893. p.105-9. *Same*, Mus. rep. 46 (for 1892) 1893. p.251-55.
- Hall. Canandaigua Lake. Geol. N. Y. pt4. 1843. p.407.
- Canandaigua quadrangle.** Clarke. Stratigraphy of the Canandaigua and Naples Quadrangles. Mus. bul. 63. 2 maps. *In press*.
- Cantharellus.** Peck. Genus Cantharellus. Mus. rep. 23 (for 1869) 1873. p.121-24.
- Peck. New York Species of Cantharellus. Mus. bul. 2. 1887. p.34-43.
- Caradoc sandstone.** Conrad. Caradoc Sandstone. Pal. rep. (for 1839) 1840. p.201; (for 1840) 1841. p.31.
- Carbon dioxid.** Ries. Carbon Dioxid. Mus. bul. 44. 1901. p.659. *Same*, Mus. rep. 54 (for 1900) 1902. 3:659.
- Carbonate ores,** *see* Siderite.
- Carbonated springs.** Beck. Acidulous or Carbonated Springs. Min. rep. (for 1837) 1838. p.48-55. Min. N. Y. 1842. p.134-41. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.116-17.
- Mather. Acidulous Mineral Waters. Geol. N. Y. pt1. 1843. p.94-103.
See also Chalybeate springs.
- Carbonic.** Clarke & Schuchert. Carbonic. *See* New York series.
- Carbonic acid gas.** Beck. Carbonic Acid Gas. Min. rep. (for 1838) 1839. p.14. Min. N. Y. 1842. p.175-76.
- Merrill. Natural Carbonic Acid Gas. Mus. bul. 15. 1895. p.561. *Same*, Mus. rep. 48 (for 1894) 1895. 1:561 (2d paging).
- — — Mus. bul. 19. 1898. p.228-29. *Same*, Mus. rep. 51 (for 1897) 1899. 1:228-29.
- Ries. Carbonic Acid Gas. Geol. rep. 17 (for 1897) 1899. p.375. *Same*, Mus. rep. 51 (for 1897) 1899. 2:375.
- Carboniferous system.** Conrad. Carboniferous System. Pal. rep. (for 1840) 1841. p.43.
- Hall. Carboniferous System. Geol. N. Y. pt4. 1843. p.284-94.
- Hall. Organic Remains. Geol. N. Y. pt4. 1843. p.291-92.

Carboniferous system (*continued*)

- Hall. Descriptions of New Species of Fossils from the Carboniferous Limestones of Indiana and Illinois. Alb. Inst. Trans. 1858-64. 4:1-36.
Read before the Albany Institute, Nov. 27, 1856.
- Hall. Carboniferous Limestone Formation and Coal Measures Proper. Pal. N. Y. 1859. 3:53-66.
- Lincklaen. Carboniferous System. Mus. rep. 14 (for 1860) 1861. p.71-74.
- Mather. Coal System. Geol. N. Y. pt1. 1843. p.295-97.
- Merrill. Carboniferous System. Mus. bul. 19. 1898. p.166-70. *Same*, Mus. rep. 51 (for 1897) 1899. 1:166-70.
- Merrill. Life of the Carboniferous. Mus. bul. 19. 1898. p.170. *Same*, Mus. rep. 51 (for 1897) 1899. 1:170.
- Carburetted hydrogen.** Beck. Carburetted Hydrogen. Min. rep. (for 1838) 1839. p.13. Min. N. Y. 1842. p.172-73.
- Hall. Carburetted Hydrogen. Geol. rep. 4th dist. (for 1837) 1838. p.335; (for 1838) 1839. p.337-38; (for 1839) 1840. p.449, 465; (for 1840) 1841. p.178-79. Geol. N. Y. pt4. 1843. p.309-11, 497-98.
- Mather. Carburetted Hydrogen. Geol. N. Y. pt1. 1843. p.114.
- Carburetted hydrogen springs.** Beck. Gas or Carburetted Hydrogen Springs. Min. rep. (for 1837) 1838. p.41-47. Min. N. Y. 1842. p.128-32. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.116.
- Hall. Carburetted Hydrogen. Geol. rep. 4th dist. (for 1838) 1839. p.337-38.
- Mather. Sulphur and Carburetted Hydrogen. Geol. N. Y. pt1. 1843. p.113-14.
- Carex.** Howe. New York Species of Carex. Bot. rep. 48 (for 1894) 1895. p.20-104. *Same*, Mus. rep. 48 (for 1894) 1895. 1:118-202 (1st paging).
- Peck. New York Carices. Mus. rep. 35 (for 1881) 1884. p.147-49.
- Carpet beetles.** Felt. Black Carpet Beetle. Ag. Soc. Trans. 59 (for 1899) 1900. p.297-98
- Felt. Buffalo Carpet Beetle. Ag. Soc. Trans. 59 (for 1899) 1900. p.297-98.
- Lintner. The New Carpet Bug. Mus. rep. 30 (for 1876) 1878. p.127-35.
- Lintner. Black Carpet Beetle. Ent. rep. 2 (for 1882 & 1883) 1885. p.46-48.
- Lintner. Buffalo Carpet Beetle. Ent. rep. 9 (for 1892) 1893. p.299-306. *Same*, Mus. rep. 46 (for 1892) 1893. p.299-306.
- Carrot rust fly.** Felt. Carrot Rust Fly. Ent. rep. 18 (for 1902). p.99-103. *In press.*
- Case bearer.** Lintner. Pistol Case-bearer. Ent. rep. 1 (for 1881) 1882. p.163-67.
- Cashaqua shale (Naples; Portage).** ^aHall. Cashaqua Shale. Geol. rep. 4th dist. (for 1839) 1840. p.390. Geol. N. Y. pt4. 1843. p.226-27.
- Hall. Cashaqua Shale in Erie County. Geol. rep. 4th dist. (for 1840) 1841. p.165. Geol. N. Y. pt4. 1843. p.473.
- Hall. Cashaqua Shale of Genesee County. Geol. rep. 4th dist. (for 1839) 1840. p.430. Geol. N. Y. pt4. 1843. p.467.
- Hall. Cashaqua Shale of Livingston County. Geol. rep. 4th dist. (for 1839) 1840. p.423. Geol. N. Y. pt4. 1843. p.463.
- See also* Naples shales; Portage group.
- Cassiterite.** Whitlock. Cassiterite. Mus. bul. 58. 1902. p.75.
- Catalogues of museum collections,** *see* Batrachia; Birds; Botanic collection; Crustacea; Economic geology; Entomologic collection; Fishes; Geologic collection; Historical and antiquarian collection; Library; Mammals; Mineralogic collection; Mollusca; Paleontologic collection; Reptiles; Zoologic collection.

^aFirst use of term.

- Catskill division. Emmons. Catskill Division. Ag. N. Y. 1846. 1:187-97.
 aMather. Catskill Mountain Series. Geol. rep. 1st dist. (for 1839) 1840.
 p.212, 227-36; (for 1840) 1841. p.75-85.
 Mather. Catskill Division. Geol. N. Y. pt1. 1843. p.299-316.
 Mather. Fossils. Geol. N. Y. pt1. 1843. p.299-402.
See also Old red sandstone.
- Catskill formation (Old red sandstone). Clarke & Schuchert. Catskill
 sandstone. Mus. mem. 3. 1900. p.12. *Same*, Mus. rep. 53 (for 1899)
 1901. 2:12.
- Clarke. Paleontologic Results of the Areal Survey of the Olean Quad-
 rangle. Mus. bul. 52. 1902. p.524-28.
- Dickinson. Quarries of Bluestone and other Sandstones. Mus. bul. 61.
In press.
- Eastman. Upper Devonian Fish-fauna of Delaware County, New York.
 Geol. rep. 17 (for 1897) 1899. p.317-27, illus. *Same*, Mus. rep. 51 (for
 1897) 1899. 2:317-27, illus.
- Emmons. Catskill Group. Ag. N. Y. 1846. 1:193-97.
- Hall. Catskill Group. Pal. N. Y. 1859. 3:51-53.
- Hall. Use of Term. Mus. rep. 23 (for 1869) 1873. p.7-8.
- Hall. Description of a New Species of *Stylonurus* from the Catskill
 Group. Mus. rep. 36 (for 1882) 1883. p.76-77, pl.5.
- Hall & Clarke. Trilobites and other Crustacea of the Oriskany, Upper
 Helderberg, Hamilton, Portage, Chemung and Catskill Groups. Pal.
 N. Y. 1888. v.7. 236p. 46pl.
- Lincklaen. Catskill Group; Fossils. Mus. rep. 14 (for 1860) 1861.
 p.70-71.
- Merrill. Fossils. Mus. bul. 19. 1898. p.165. *Same*, Mus. rep. 51 (for 1897)
 1899. 1:165.
- Smock. Catskill Sandstone. Mus. bul. 3. 1888. p.18-19; 10. 1890. p.224-25.
 ——— *revised* by Merrill. Mus. bul. 15. 1895. p.390. *Same*, Mus. rep.
 48 (for 1894) 1895. 1:390 (2d paging).
- *revised* by Merrill. Mus. bul. 19. 1898. p.194. *Same*, Mus. rep.
 51 (for 1897) 1899. 1:194.
- Vanuxem. Catskill Group. Geol. N. Y. pt3. 1842. p.16. 186-94.
- Vanuxem. Catskill Group in Broome County. Geol. N. Y. pt3. 1842.
 p.294, 296.
- Vanuxem. Catskill Group in Chenango County. Geol. N. Y. pt3. 1842.
 p.294.
- Vanuxem. Catskill Group in Otsego County. Geol. N. Y. pt3. 1842.
 p.254.
- Vanuxem. Catskill Group in Tioga County. Geol. N. Y. pt3. 1842.
 p.297.
- Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.188-92.
See also Old red sandstone.
- Catskill mountains. Darton. Catskill Mountain Region. Geol. rep. 13
 (for 1893) 1894. p.362-64. *Same*, Mus. rep. 47 (for 1893) 1894. p.556-58.
- Merrill. Relief map. Mus. bul. 19. 1898. pl.85. *Same*, Mus. rep. 51 (for
 1897) 1899. v.1, pl.85.
- Catskill shaly limestone (New Scotland; Delthyris). aVanuxem, Cats-
 kill Shaly Limestone. Geol. N. Y. pt3. 1842. p.120-22.
- Vanuxem. Catskill Shaly Limestone in Herkimer County. Geol. N. Y.
 pt3. 1842. p.258.
- Vanuxem. Catskill Shaly Limestone in Madison County. Geol. N. Y.
 pt3. 1842. p.274.

Catskill shaly limestone (*continued*)

Vanuxem. Catskill Shaly Limestone in Oneida County. Geol. N. Y. pt3. 1842. p.263.

Vanuxem. Catskill Shaly Limestone in Otsego County. Geol. N. Y. pt3. 1842. p.253.

Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.121-22.

See also Delthyris shaly limestone; New Scotland limestone.

Cattaraugus county. Bishop. Oil and Natural Gas. Geol. rep. 17 (for 1897) 1899. p.33-62. map. *Same*, Mus. rep. 51 (for 1897) 1899. 2:33-62. map.

Map of the oil and gas district, 34.5x24cm.

Bishop. Oil and Gas in. Geol. rep. 19 (for 1899) 1901. p.115-20. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r115-20.

Dickinson. Bluestone Quarries. Mus. bul. 61. *In press*.

Felt. Entomologic Reports from. Ent. rep. 18 (for 1902). p.144-45. *In press*.

Hall. Cattaraugus. Geol. rep. 4th dist. (for 1839) 1840. p.412-16. Geol. N. Y. pt4. 1843. p.488-93.

Horsford. Geology of Cattaraugus County. Geol. rep. 4th dist. (for 1839) 1840. p.457-72.

Randall. Preliminary Report on the Geology of Cattaraugus and Chautauqua Counties. Geol. rep. 13 (for 1893) 1894. p.517-27. diagrams. *Same*, Mus. rep. 47 (for 1893) 1894. p.711-21. diagrams.

Ries. Brick Yards. Mus. bul. 12. 1895. p.208, 248. *Same*, Mus. rep. 48 (for 1894) 1895. 1:208, 248 (2d paging).

— — — Mus. bul. 35. 1900. p.725. *Same*, Mus. rep. 54 (for 1900) 1902. 2:725.

Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.91; 10. 1890. p.277-78.

— — — *revised* by Merrill. Mus. bul. 15. 1895. p.410. *Same*, Mus. rep. 48 (for 1894) 1895. 1:410 (2d paging).

van Ingen. Oil and Gas Field. Mus. bul. 15. 1895. p.560. *Same*, Mus. rep. 48 (for 1894) 1895. 1:560 (2d paging).

Cauda galli grit (Esopus). Emmons. Cauda-galli Grit. Ag. N. Y. 1846. 1:171-73.

Hall. Cauda-galli Grit. Geol. N. Y. pt4. 1843. p.150.

Mather. Cauda-galli Grit. Geol. N. Y. pt1. 1843. p.341-42.

Mather. Fossils. Geol. N. Y. pt1. 1843. p.341.

Merrill. Cauda Galli Grit. Mus. bul. 19. 1898. p.159. *Same*, Mus. rep. 51 (for 1897) 1899. 1:159.

Smock. Sandstones. Mus. bul. 3. 1888. p.17; 10. 1890. p.221.

— — — *revised* by Merrill. Mus. bul. 15. 1895. p.387. *Same*, Mus. rep. 48 (for 1894) 1895. 1:387 (2d paging).

— — — *revised* by Merrill. Mus. bul. 19. 1898. p.191. *Same*, Mus. rep. 51 (for 1897) 1899. 1:191.

Vanuxem. Fucoides Cauda-galli. Geol. rep. 3d dist. (for 1839) 1840. p.377-78.

^aVanuxem. Cauda Galli Grit. Geol. N. Y. pt3. 1842. p.127-30.

Vanuxem. Cauda Galli Grit in Herkimer County. Geol. N. Y. pt3. 1842. p.258.

Vanuxem. Cauda Galli Grit in Otsego County. Geol. N. Y. pt3. 1842. p.253.

See also Esopus grit.

- Cave men**, *see* Platycnemic man.
- Caves**. Mather. Caves, Subterranean Streams, Natural Springs and Limestone Springs. Geol. N. Y. pt.1. 1843. p.109-13.
- Cayuga, gray sandstone of**, *see* Gray sandstone.
- Cayuga county**. Beck. Mineralogy. Min. rep. (for 1839) 1840. p.55-57.
Beck. Brine Springs. Min. rep. (for 1840) 1841. p.23. Min. N. Y. 1842. p.108-10.
Bishop. Natural Gas. Geol. rep. 17 (for 1897) 1899. p.11-12. *Same*, Mus. rep. 51 (for 1897) 1899. 2:11-12.
Clarke. Agoniatite Limestone. Mus. bul. 49. 1901. p.119-20.
Dickinson. Bluestone Quarries. Mus. bul. 61. *In press*.
Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.553 (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1900. 1:553.
— — — Ent. rep. 16 (for 1900) 1901. p.1003. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1003.
Ries. Brick Yards. Mus. bul. 12. 1895. p.202, 203, 248. *Same*, Mus. rep. 48 (for 1894) 1895. 1:202, 203, 248 (2d paging).
— — — Mus. bul. 35. 1900. p.718. *Same*, Mus. rep. 54 (for 1900) 1902. 2:718.
Ries. Drain Tile Works. Mus. bul. 12. 1895. p.223. *Same*, Mus. rep. 48 (for 1894) 1895. 1:223 (2d paging).
— — — Mus. bul. 35. 1900. p.772. *Same*, Mus. rep. 54 (for 1900) 1902. 2:772.
Ries. Limestone Formations. Mus. bul. 44. 1901. p.772-74. *Same*, Mus. rep. 54 (for 1900) 1902. 3:772-74.
Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.81, 125-30; 10. 1890. p.252-53, 261.
— — — *revised* by Merrill. Mus. bul. 15. 1895. p.397, 445. *Same*, Mus. rep. 48 (for 1894) 1895. 1:397, 445 (2d paging).
Vanuxem. Geology. Geol. rep. 3d dist. (for 1838) 1839. p.245-85. Geol. N. Y. pt.3. 1842. p.285-89.
- Cayuga lake**. Delafield. Cayuga Lake. Ag. Soc. Trans. 10 (for 1850) 1851. p.409-12.
Hall. Cayuga Lake. Geol. N. Y. pt.4. 1843. p.406.
Nevius. History of Cayuga Lake Valley. Mus. rep. 51 (for 1897) 1899. 1:129-53. *illus*.
Contains a bibliography.
Vanuxem. Cayuga Lake. Geol. N. Y. pt.3. 1842. p.239.
Williams. Lower Helderberg Rocks of Cayuga Lake. Geol. rep. 6 (for 1836) 1837. p.10-12.
See also Finger lakes.
- Cayugan**. aClarke & Schuchert. Cayugan. Mus. mem. 3. 1900. p.10. *Same*, Mus. rep. 53 (for 1899) 1901. 2:10.
- Cazenovia group**. Conrad. Cazenovia Group. Pal. rep. (for 1840) 1841. p.31.
See also Erie division; Hamilton group.
- Cazenovia lake**. Vanuxem. Cazenovia Lake. Geol. N. Y. pt.3. 1842. p.238.
- Celestite**. Beck. Celestine. Min. N. Y. 1842. p.210-11. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.123.
Whitlock. Celestite. Mus. bul. 58. 1902. p.125-26.
- Cement**. Beck. Hydraulic or Water Limestones. Min. rep. (for 1838) 1839. p.23-31; (for 1840) 1841. p.11-12. Min. N. Y. 1842. p.75-82, 256. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.123.

^aFirst use of term in original publication of this article. Science. 1899. new ser. 10:877.

Cement (*continued*)

- Bishop. Hydraulic Limestones of Erie County. Geol. rep. 15 (for 1895) 1897. p.312-13, 330-31, 338-41, 390. *Same*, Mus. rep. 49 (for 1895) 1898. 2:312-13, 330-31, 338-41, 390.
- Darton. Rosendale-Whiteport Cement Region. Geol. rep. 13 (for 1893) 1894. p.329-46. *Same*, Mus. rep. 47 (for 1893) 1894. p.523-40.
- Darton. Salina Waterlime Beds of Ulster County. Geol. rep. 13 (for 1893) 1894. p.306-7. *Same*, Mus. rep. 47 (for 1893) 1894. p.500-1.
- Eckel. Early History of the Portland Cement Industry in New York State. Mus. bul. 44. 1901. p.849-59. *Same*, Mus. rep. 54 (for 1900) 1902. 3:849-59.
- Eckel. Manufacture of Portland Cement in New York State. Mus. bul. 44. 1901. p.860-76. *Same*, Mus. rep. 54 (for 1900) 1902. 3:860-76.
- Eckel. Tests of Cement made by the State Engineer during 1897-1900. Mus. bul. 44. 1901. p.877-91. *Same*, Mus. rep. 54 (for 1900) 1902. 3:877-91.
- Evans. Cement of Madison County. Ag. Soc. Trans. 11 (for 1851) 1852. p.698.
- Fitch. Galesville Hydraulic Cement of Washington County. Ag. Soc. Trans. 9 (for 1849) 1850. p.853.
- Geddes. Waterlime of Onondaga County. Ag. Soc. Trans. 19 (for 1859) 1860. p.249-50.
- Hall. Waterlime, or Hydraulic Cement. Geol. N. Y. pt.4. 1843. p.142-43.
- Luther. Natural Cement Industry in Onondaga County. Geol. rep. 15 (for 1895) 1897. p.267-72. *Same*, Mus. rep. 49 (for 1895) 1898. 2:267-72.
- Luther. Portland Cement of Onondaga County. Geol. rep. 15 (for 1895) 1897. p.291. *Same*, Mus. rep. 49 (for 1895) 1898. 2:291.
- Mather. Lime and Hydraulic Cement in the 1st District. Geol. rep. 1st dist. (for 1839) 1840. p.239-44. Geol. N. Y. pt.1. 1843. p.328-30.
- Merrill. Lime and Cement. Mus. bul. 19. 1898. p.222. *Same*, Mus. rep. 51 (for 1897) 1899. 1:222.
- Merrill. Directory of Producers. Mus. bul. 15. 1895. p.519-26. *Same*, Mus. rep. 48 (for 1894) 1895. 1:519-26 (2d paging).
- Nason. Rosendale, or Natural Cement in Ulster county. Geol. rep. 13 (for 1893) 1894. p.379-84, 399. *Same*, Mus. rep. 47 (for 1893) 1894. p.573-78, 593.
- Ries. Cements. Geol. rep. 17 (for 1897) 1899. p.389-428. *Same*, Mus. rep. 51 (for 1897) 1899. 2:389-428.
- Ries. Lime and Cement Industries of New York. Mus. bul. 44. 1901. p.639-968 pl. (phot.) maps. *Same*, Mus. rep. 54 (for 1900) 1902. 3:639-968 pl (phot.) maps.
 Map of New York state showing location of limestone quarries and marl deposits and manufactories of natural and Portland cement (uncolored) 72x74cm.
 Map of New York state showing distribution of limestones (uncolored) 44.5x35cm.
- Ries. Books relating to. Mus. bul. 44. 1901. p.751-52. *Same*, Mus. rep. 54 (for 1900) 1902. 3:751-52.
- Ries. Directory of Producers. Mus. bul. 44. 1901. p.839-48. *Same*, Mus. rep. 54 (for 1900) 1902. 3:839-48.
- Ries. Portland Cement. Geol. rep.17 (for 1897) 1899. p.403-28. *Same*, Mus. rep. 51 (for 1897) 1899. 2:403-28.
- — — *revised*. Mus. bul. 35. 1900. p.845-47. *Same*, Mus. rep. 54 (for 1900) 1902. 2:845-47.
- — — *revised*. Mus. bul. 44. 1901. p.692-750. *Same*, Mus. rep. 54 (for 1900) 1902. 3:692-750.
- Ries. Rosendale Cements. Mus. bul. 44. 1901. p.678-92, 833-38. *Same*, Mus. rep. 54 (for 1900) 1902. 3:678-92, 833-38.

See also Waterlime.

- Cenozoic fossils.** *Bagg.* Report of Work on the Collection of Mesozoic and Cenozoic Fossils in Geological Hall. Mus. rep. 52 (for 1898) 1900. 1:r32-78.
- Cenozoic time.** Merrill. Cenozoic Time. Mus. bul. 19. 1898. p.174-79.
Same, Mus. rep. 51 (for 1897) 1899. 1:174-79.
See also Pleistocene; Quaternary; Tertiary.
- Cephalopoda.** De Kay. Cephalopoda. Zool. N. Y. 1843. v.5. pt5. p.2-5.
- Cephalopoda (paleozoic).** Beecher. Cephalopoda; Descriptions of Species. Pal. N. Y. 1888. v.7, supplement. p.25-40. pl.117-29.
- Clarke. List of the Original and Illustrated Specimens in the Palaeontological Collections. Pt2, Annelida and Cephalopoda. Geol. rep. 12 (for 1892) 1893. p.55-104. *Same*, Mus. rep. 46 (for 1892) 1893. p.201-50.
- Clarke. Naples Fauna. Goniatitinae. Geol. rep. 16 (for 1896) 1899. p.42-161. 9pl. *Same*, Mus. rep. 50 (for 1896) 1899. 2:42-161. 9pl.
- Clarke. Early Stages of Certain Goniatites. Geol. rep. 16 (for 1896) 1899. p.163-69. illus. *Same*, Mus. rep. 50 (for 1896) 1899. 2:163-69. illus.
- Clarke. A Remarkable Occurrence of Orthoceras in the Oneonta Beds of the Chenango Valley, N. Y. Mus. bul. 39. 1900. p.167-71. pl.1-4 (phot.)
Same, Mus. rep. 54 (for 1900) 1902. 3:167-71. pl.1-4 (phot.)
- Clarke. Type Specimens in New York State Museum. Mus. bul. 65. *In press.*
- Grabau. Cephalopoda of Hamilton Group. Geol. rep. 16 (for 1896) 1899. p.243-44. *Same*, Mus. rep. 50 (for 1896) 1899. 2:243-44.
- Grabau. Cephalopoda of Niagara Region. Mus. bul. 45. 1901. p.214-18. *Same*, Mus. rep. 54 (for 1900) 1902. 4:214-18.
- Hall. Cephalopoda of Lower Silurian. Pal. N. Y. 1847. v.1 (various page references, *see* Table, p.327).
- Hall. Cephalopoda of Clinton Group. Pal. N. Y. 1852. 2:94-97.
- Hall. Cephalopoda of Niagara Group. Pal. N. Y. 1852. 2:290-95. Mus. rep. 20 (for 1866) 1867. p.347-63.
- Hall. Cephalopoda of Coralline Limestone. Pal. N. Y. 1852. 2:335-37
- Hall. Cephalopoda of Lower Helderberg Group. Pal. N. Y. 1859. 3:342-46.
- Hall. Cephalopoda of Oriskany Sandstone. Pal. N. Y. 1859. 3:480.
- Hall. Fossils of Goniatite Limestone. Mus. rep. 13 (for 1859) 1860. p.95-112, 125.
- Hall. New Species. Mus. rep. 14 (for 1860) 1861. p.108-9.
- Hall. Cephalopoda. Mus. rep. 15 (for 1861) 1862. p.63-80.
- Hall. Orthoceratidae of Niagara Group. Mus. rep. 20 (for 1866) 1867. p.351-63.
- Hall. Descriptions of New Species of Goniatitidae, with a List of Previously Described Species. Mus. rep. 27 (for 1873) 1875. p.132-36.
- Hall. Illustrations of Devonian Fossils. Cephalopoda. 1876.
- Hall. Cephalopoda of the Palaeozoic Formations. Pal. N. Y. 1879. v.5. pt2. p.217-478. (v.1, text; v.2, plates).
- Hall. Cephalopoda of Niagara Group in Central Indiana. Mus. rep. 28 (for 1874) 1879. p.179-80.
- Hall. Plates and Explanations of Cephalopoda, Supplementary to Paleontology of New York. v.5. pt2. Geol. rep. 5 (for 1885) 1886. pl.1-14 (117-29).
- List of the Species and Specimens of Cephalopoda from the Schoharie Grit, Upper Helderberg, Marcellus Shale, Hamilton, Tully Limestone, Genesee Slate, Portage, Chemung and Waverly Groups, as arranged in the Cases of the State Museum. Mus. rep. 35 (for 1881) 1884. p.33-66.
- Ruedemann. Cephalopoda of Trenton Conglomerate of Rysedorph Hill. Mus. bul. 49. 1901. p.39-41.

Cephalopoda (paleozoic) (continued)

Wood. Cephalopoda of Marcellus (Stafford) Limestones of Lancaster, Erie Co. N. Y. Mus. bul. 49. 1901. p.171-72.

Ceramics, see Pottery.

Cerargyrite. Whitlock. Cerargyrite. Mus. bul. 58. 1902. p.64.

Cerium. Beck. Cerium. Min. N. Y. 1842. p.440-41.

Cerussite. Beck. White Lead Ore. Min. N. Y. 1842. p.414-15. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.150.

Merrill. Localities. Mus. bul. 15. 1895. p.580. *Same*, Mus. rep. 48 (for 1894) 1895. 1:580 (2d paging).

— — — Mus. bul. 19. 1898. p.232. *Same*, Mus. rep. 51 (for 1897) 1899. 1:232.

Whitlock. Cerussite. Mus. bul. 58. 1902. p.85.

Chabazite. Beck. Chabazite. Min. N. Y. 1842. p.353. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.142.

Whitlock. Chabazite. Mus. bul. 58. 1902. p.109.

Chalcocite. Beck. Vitreous Copper. Min. N. Y. 1842. p.422.

Whitlock. Chalcocite. Mus. bul. 58. 1902. p.54.

Chalcopyrite. Beck. Sulphuret of Copper, or Copper Pyrites. Min. N. Y. 1842. p.52, 423-25.

Hunt. Copper Pyrites. Mus. rep. 21 (for 1867) 1871. p.90-91.

Merrill. Localities. Mus. bul. 15. 1895. p.580. *Same*, Mus. rep. 48 (for 1894) 1895. 1:580 (2d paging).

— — — Mus. bul. 19. 1898. p.232. *Same*, Mus. rep. 51 (for 1897) 1899. 1:232.

Whitlock. Chalcopyrite. Mus. bul. 58. 1902. p.57.

Chalybeate springs. Mather. Chalybeate Springs. Geol. N. Y. pt1. 1843. p.89-91, 237.

Peale. Chalybeate Springs. Mus. bul. 15. 1895. p.564. *Same*, Mus. rep. 48 (for 1894) 1895. 1:564 (2d paging).

See also Carbonated springs.

Champlain division. Denniston. Champlain Division in Orange County. Ag. Soc. Trans. 22 (for 1862) 1863. p.156.

*a*Emmons. Champlain Group. Geol. N. Y. pt2. 1842. p.102-26.

Emmons. Fossils. Geol. N. Y. pt2. 1842. p.382-405.

Emmons. Section of the Champlain Group at Highgate, Vt. Geol. N. Y. pt2. 1842. p.321-22.

Emmons. Champlain Division. Ag. N. Y. 1846. 1:117-41.

Hall. Champlain Division. Geol. N. Y. pt4. 1843. p.18, 27-31.

Mather. Champlain Division. Geol. N. Y. pt1. 1843. p.366-421.

Mather. Fossils. Geol. N. Y. pt1. 1843. p.390-95, 400-2, 410-12.

Mather. Ores found in the Champlain, Taconic and Metamorphic Rocks. Geol. N. Y. pt1. 1843. p.488-509.

Vanuxem. Champlain Division. Geol. N. Y. pt3. 1842. p.15, 28-67.

See also Champlainic.

Champlain valley. Emmons. Champlain Valley. Geol. N. Y. pt2. 1842. p.13-15.

Ries. Clays. Mus. bul. 12. 1895. p.120. *Same*, Mus. rep. 48 (for 1894) 1895. 1:120 (2d paging).

— — — Mus. bul. 35. 1900. p.594-95. *Same*, Mus. rep. 54 (for 1900) 1902. 2:594-95.

— — — *abridged* by Merrill. Mus. bul. 15. 1895. p.499-500. *Same*, Mus. rep. 48 (for 1894) 1895. 1:499-500 (2d paging).

Champlain valley (*continued*)

- Mus. bul. 19. 1898. p.211-12. *Same*, Mus. rep. 51 (for 1897) 1899. 1:211-12.
- Champlainic (Lower Silurian; Ordovician).** Clarke & Schuchert. Champlainic. Mus. mem. 3. 1900. p.9. *Same*, Mus. rep. 53 (for 1899) 1901. 2:9.
- Chautauqua county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.57-58. Bishop. Oil and Gas in. Geol. rep. 19 (for 1899) 1901. p.r120. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r120.
- Dickinson. Bluestone Quarries. Mus. bul. 61. *In press*.
- Felt. Entomologic Investigations in. Mus. bul. 59. 1902. p.49-84. illus. 1 pl. (lith.) 5 pl. (phot.).
- Hall. Chautauque County. Geol. rep. 4th dist. (for 1840) 1841. p.169-79. Geol. N. Y. pt4. 1843. p.493-99.
- Orton. Lake Shore Natural Gas Belt of Chautauqua County. Mus. bul. 30. 1899. p.492-522. *Same*, Mus. rep. 53 (for 1899) 1901. 1:492-522.
- Randall. Preliminary Report on the Geology of Cattaraugus and Chautauqua Counties. Geol. rep. 13 (for 1893) 1894. p.517-27. diagrams. *Same*, Mus. rep. 47 (for 1893) 1894. p.711-21. diagrams.
- Ries. Brick Yards. Mus. bul. 12. 1895. p.207, 248. *Same*, Mus. rep. 48 (for 1894) 1895. 1:207, 248 (2d paging).
- Mus. bul. 35. 1900. p.724-25. *Same*, Mus. rep. 54 (for 1900) 1902. 2:724-25.
- Ries. Marl. Mus. bul. 44. 1901. p.774. *Same*, Mus. rep. 54 (for 1900) 1902. 3:774.
- Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.91-92; 10. 1890. p.278.
- *revised* by Merrill. Mus. bul. 15. 1895. p.410-11. *Same*, Mus. rep. 48 (for 1894) 1895. 1:410-11 (2d paging).
- Chautauquan.** ^aClarke & Schuchert. Chautauquan. Mus. mem. 3. 1900. p.11. *Same*, Mus. rep. 53 (for 1899) 1901. 2:11.
- Chazy limestone.** Clarke & Schuchert. Chazy limestone. *See* New York series.
- Cushing. Chazy Limestone of Clinton County. Geol. rep. 13 (for 1893) 1894. p.481-83. *Same*, Mus. rep. 47 (for 1893) 1894. p.675-77.
- Geol. rep. 15 (for 1895) 1897. p.513-73. *Same*, Mus. rep. 49 (for 1895) 1898. 2:513-73.
- Geol. rep. 19 (for 1899) 1901. p.r67-68. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r67-68.
- ^bEmmons. Chazy limestone. Geol. N. Y. pt2. 1842. p.107, 168. Ag. N. Y. 1846. 1:122.
- Emmons. Chazy Limestone of Clinton County. Geol. N. Y. pt2. 1842. p.315-17.
- Emmons. Chazy Limestone of Essex County. Geol. N. Y. pt2. 1842. p.272-77.
- Emmons. Fossils. Geol. N. Y. pt2. 1842. p.107, 273, 276, 316.
- Fitch. Chazy Limestone of Washington County. Ag. Soc. Trans. 9 (for 1849) 1850. p.826-27.
- Hall. Organic Remains. Geol. N. Y. pt4. 1843. p.28. Pal. N. Y. 1847. 1:14-36.
- Hall. Chazy Limestone. Pal. N. Y. 1859. 3:7-11.
- Kemp. Chazy Limestone of Essex County. Geol. rep. 13 (for 1893) 1894. p.446-72. *Same*, Mus. rep. 47 (for 1893) 1894. p.640-66.

^aFirst use of term in original publication of this article. Science. 1899. new ser. 10:877.

^bFirst use of term.

Chazy limestone (*continued*)

- Lincklaen. Chazy Limestone; Fossils. Mus. rep. 14 (for 1860) 1861. p.38-41.
- Merrill, Chazy Limestone. Mus. bul. 19. 1898. p.147. *Same*, Mus. rep. 51 (for 1897) 1899. 1:147.
- Ries. Chazy Limestone. Geol. rep. 17 (for 1897) 1899. p.362-63. *Same*, Mus. rep. 51 (for 1897) 1899. 2:362-63.
- — *revised*. Mus. bul. 44. 1901. p.754-55. *Same*, Mus. rep. 54 (for 1900) 1902. 3:754-55.
- Ries. Chazy Limestone of Clinton County. Geol. rep. 17 (for 1897) 1899. p.432. *Same*, Mus. rep. 51 (for 1897) 1899. 2:432.
- — *revised*. Mus. bul. 44. 1901. p.774. *Same*, Mus. rep. 54 (for 1900) 1902. 3:774.
- Ries. Chazy Limestone of Essex County. Geol. rep. 17 (for 1897) 1899. p.436-37. *Same*, Mus. rep. 51 (for 1897) 1899. 2:436-37.
- — *revised*. Mus. bul. 44. 1901. p.782. *Same*, Mus. rep. 54 (for 1900) 1902. 3:782.
- Ries. Chazy Limestone of St Lawrence County. Geol. rep. 17 (for 1897) 1899. p.453-54. *Same*, Mus. rep. 51 (for 1897) 1899. 2:453-54.
- — *revised*. Mus. bul. 44. 1901. p.812-13. *Same*, Mus. rep. 54 (for 1900) 1902. 3:812-13.
- Smock. Chazy Limestone. Mus. bul. 3. 1888. p.21; 10. 1890. p.210.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.426. *Same*, Mus. rep. 48 (for 1894) 1895. 1:426 (2d paging).
- — *revised* by Merrill. Mus. bul. 19. 1898. p.200. *Same*, Mus. rep. 51 (for 1897) 1899. 1:200.
- Smock. Quarries. Mus. bul. 3. 1888. p.94-134; 10. 1890. p.238-55.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.432-47. *Same*, Mus. rep. 48 (for 1894) 1895. 1:432-47 (2d paging).
- Walcott. Descriptions of New Species of Fossils from the Chazy and Trenton Limestones. Mus. rep. 31 (for 1877) 1879. p.68-71.
- Cheese skipper.** Felt. Cheese Skipper. Ag. Soc. Trans. 59 (for 1899) 1900. p.300-1.
- Lintner. Cheese Skipper. Ent. rep. 12 (for 1896) 1897. p.229-34. *Same*, Mus. rep. 50 (for 1896) 1898. 1:229-34 (1st paging).
- Chemung county.** Dickinson. Bluestone Quarries. Mus. bul. 61. *In press*.
- Felt. Entomological Reports from. Ent. rep. 16 (for 1900) 1901. p.1003. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1003.
- — Ent. rep. 17 (for 1901) 1902. p.777. (Mus. bul. 53).
- — Ent. rep. 18 (for 1902). p.145. *In press*.
- Hall. Chemung County. Geol. rep. 4th dist. (for 1838) 1839. p.321-24. Geol. N. Y. pt4. 1843. p.477-79.
- Ries. Brick Yards. Mus. bul. 12. 1895. p.209-10, 250. *Same*, Mus. rep. 48 (for 1894) 1895. 1:209-10, 250 (2d paging).
- — Mus. bul. 35. 1900. p.726-28. *Same*, Mus. rep. 54 (for 1900) 1902. 2:726-28.
- Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.85-87; 10. 1890. p.276.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.409. *Same*, Mus. rep. 48 (for 1894) 1895. 1:409 (2d paging).
- Chemung group.** Clarke. Chemung Group of Ontario County. Geol. rep. 4 (for 1884) 1885. p.21-22.
- Clarke. The Genus *Bronteus* in the Chemung Rocks of New York. Geol. rep. 8 (for 1888) 1889. p.57-59. *Same*, Mus. rep. 42 (for 1888) 1889. p.403-5.

Chemung group (*continued*)

- Clarke. Notes on Some Crustaceans from the Chemung Group of New York. Geol. rep. 15 (for 1895) 1897. p.729-38. *Same*, Mus. rep. 49 (for 1895) 1898. 2:729-38.
- Clarke. Dictyonine Hexactinellid Sponges from the Upper Devonian of New York. Mus. bul. 39. 1900. p.187-90. pl.10-11. *Same*, Mus. rep. 54 (for 1900) 1902. 3:187-90. pl.10-11.
- Clarke. New Agelacrinites. Mus. bul. 49. 1901. p.182-98. pl.10.
- Clarke. Chemung Fauna. Mus. bul. 52. 1902. p.671-72.
- Clarke & Schuchert. Chemung Beds. *See* New York series.
- Dickinson. Quarries of Bluestone and Other Sandstones. Mus. bul. 61. *In press*.
- Emmons. Chemung Group. Ag. N. Y. 1846. 1:188-93.
- Hall. Chemung Group. Geol. rep. 4th dist. (for 1839) 1840. p.392. Geol. N. Y. pt4. 1843. p.251-77. Pal. N. Y. 1859. 3:48-49.
- Hall. Chemung Group of Allegany County. Geol. rep. 4th dist. (for 1839) 1840. p.402. Geol. N. Y. pt4. 1843. p.485.
- Hall. Chemung Group of Chautauqua County. Geol. rep. 4th dist. (for 1840) 1841. p.171. Geol. N. Y. pt4. 1843. p.494.
- ^aHall. Chemung Group of Chemung County. Geol. rep. 4th dist. (for 1838) 1839. p.322-24. Geol. N. Y. pt4. 1843. p.477-79.
- Hall. Chemung Group of Genesee County. Geol. rep. 4th dist. (for 1839) 1840. p.430. Geol. N. Y. pt4. 1843. p.467.
- Hall. Chemung Group of Steuben County. Geol. rep. 4th dist. (for 1838) 1839. p.325-26; (for 1839) 1840. p.395-97. Geol. N. Y. pt4. 1843. p.480-81.
- Hall. Chemung Group of Tompkins County. Geol. rep. 4th dist. (for 1838) 1839. p.318-19. Geol. N. Y. pt4. 1843. p.476.
- Hall. Chemung Group of Yates County. Geol. N. Y. pt4. 1843. p.458.
- Hall. Organic Remains. Geol. N. Y. pt4. 1843. p.261-75. Mus. rep. 10 (for 1856) 1857. p.169-80.
- Hall. Descriptions of New Species of Fossils from the Upper Helderberg, Hamilton and Chemung Groups. Mus. rep. 14 (for 1860) 1861. p.99-109; 15 (for 1861) 1862. p.27-155. illus. 11pl.
- Hall. Descriptions of New Species of Brachiopoda from the Upper Helderberg, Hamilton and Chemung Groups. Mus. rep. 16 (for 1862) 1863. p.19-37.
- Hall. Observations upon the Genera *Uphantaenia* and *Dictyophyton*, with notices of some species from the Chemung group of New York and the Waverly sandstone of Ohio. Mus. rep. 16 (for 1862) 1863. p.84-91. illus. 4pl.
- Hall. Fossil Brachiopoda of the Upper Helderberg, Hamilton, Portage and Chemung Groups. Pal. N. Y. 1867. v.4. 428p. 99pl.
- Hall & Whitfield. Some Peculiar Impressions in Sandstone of the Chemung Group, New York. Mus. rep. 24 (for 1870) 1872. p.201-4.
- Hall. Use of Term. Mus. rep. 23 (for 1869) 1873. p.8-9.
- Hall. Illustrations of Devonian Fossils of the Upper Helderberg, Hamilton and Chemung groups. 1876.
- Hall. Gasteropoda, Pteropoda, and Cephalopoda of the Upper Helderberg, Hamilton, Portage and Chemung Groups. Pal. N. Y. 1879. v.5. pt2. 492p. (v.1, text, v.2, 120pl.); 1888. v.7, supplement. 42p. 18pl.
- Hall. Preliminary Notice of the Lamellibranchiate Shells of the Upper Helderberg, Hamilton and Chemung Groups. Mus. rep. 35 (for 1881) 1884. p.215-406g.

^aFirst use of term.

Chemung group (*continued*)

- Hall. Lamellibranchiata: Monomyria of the Upper Helderberg, Hamilton and Chemung Groups. Pal. N. Y. 1884. v.5. pt.1. 268p. 45pl.; Dimyria of the Upper Helderberg, Hamilton, Portage and Chemung Groups. Pal. N. Y. 1885. v.5. pt.1. p.269-561. 51pl.
- Hall & Clarke. Trilobites and Other Crustacea of the Oriskany, Upper Helderberg, Hamilton, Portage, Chemung and Catskill Groups. Pal. N. Y. 1888. v.7. 236p. 46pl.
- Hall. New Forms of Dictyospongidae from the Rocks of the Chemung Group. Geol. rep. 9 (for 1889) 1890. p.56-60. *Same*, Mus. rep. 43 (for 1889) 1890. p.258-62.
- Jewett. Letter regarding Fossils of the Chemung Group. Mus. rep. 15 (for 1861) 1862. p.198.
- Lincklaen. Chemung Group; Fossils. Mus. rep. 14 (for 1860) 1861. p.69-70.
- Luther. Stratigraphic Position of the Portage Sandstones in the Naples Valley and the Adjoining Region. Geol. rep. 15 (for 1895) 1897. p.13-14, 223-36. pl. (phot.) map. *Same*, Mus. rep. 49 (for 1895) 1898. 2:13-14, 223-36. pl. (phot.) map.
Geologic map of the township of Naples, Ontario county, 17x16.5cm.
Purpose of paper to determine line of division between Portage and Chemung groups.
- Luther. Chemung Group. Geol. rep. 16 (for 1896) 1899. p.225-26. *Same*, Mus. rep. 50 (for 1896) 1899. 2:225-26.
- Luther. Chemung Group of Onondaga County. Geol. rep. 15 (for 1895) 1897. p.284-86. *Same*, Mus. rep. 49 (for 1895) 1898. 2:284-86.
- Mather. Ithaca and Chemung Group. Geol. N. Y. pt.1. 1843. p.317.
- Merrill. Chemung Group. Mus. bul. 19. 1898. p.164. *Same*, Mus. rep. 51 (for 1897) 1899. 1:164.
- Prosser. Classification and Distribution of the Hamilton and Chemung Series of Central and Eastern New York. Pt1, Geol. rep. 15 (for 1895) 1897. p.12-13, 83-222, pl. (phot.) map. Pt2, Geol. rep. 17 (for 1897) 1899. p.65-315. pl. (phot.) map. *Same*, Pt1, Mus. rep. 49 (for 1895) 1898. 2:12-13, 83-222. pl. (phot.) map. Pt2, Mus. rep. 51 (for 1897) 1899. 2:65-315. pl. (phot.) map.
Pt1 Geologic map of parts of Chenango, Madison, Otsego, Schoharie and Albany counties, 58x33.5cm.
Pt2 Map showing distribution of middle and upper Devonian rocks in central eastern New York, 61x38.5cm; Map of Delaware county, by W. L. Fisher, 34x32cm.
- Ries. Chemung Shale. Geol. rep. 15 (for 1895) 1897. p.695-98. *Same*, Mus. rep. 49 (for 1895) 1898. 2:695-98.
— — *revised*. Mus. bul. 35. 1900. p.836-41. *Same*, Mus. rep. 54 (for 1900) 1902. 2:836-41.
- Ries. Chemung Group of Orange County. Geol. rep. 15 (for 1895) 1897. p.404. *Same*, Mus. rep. 49 (for 1895) 1898. 2:404.
- Smock. Quarries. Mus. bul. 3. 1888. p.85-92; 10. 1890. p.275-78.
— — *revised* by Merrill. Mus. bul. 15. 1895. p.409-11. *Same*, Mus. rep. 48 (for 1894) 1895. 1:409-11 (2d paging).
- Smock. Chemung Sandstone. Mus. bul. 3. 1888. p.18; 10. 1890. p.224.
— — *revised* by Merrill. Mus. bul. 15. 1895. p.389-90. *Same*, Mus. rep. 48 (for 1894) 1895. 1:389-90 (2d paging).
- — *revised* by Merrill. Mus. bul. 19. 1898. p.193-94. *Same*, Mus. rep. 51 (for 1897) 1899. 1:193-94.
- Vanuxem. Chemung Group. Geol. rep. 3d dist. (for 1839) 1840. p.381. Geol. N. Y. pt.3. 1842. p.179-85.
- Vanuxem. Chemung Group in Broome County. Geol. N. Y. pt.3. 1842. p.294.
- Vanuxem. Chemung Group in Chenango County. Geol. N. Y. pt.3. 1842. p.293.

Chemung group (*continued*)

- Vanuxem. Chemung Group in Cortland County. Geol. N. Y. pt3. 1842. p.291.
- Vanuxem. Chemung Group in Otsego County. Geol. N. Y. pt3. 1842. p.254.
- Vanuxem. Chemung Group in Tioga County. Geol. N. Y. pt3. 1842. p.297.
- Vanuxem. Chemung County in Tompkins County. Geol. N. Y. pt3. 1842. p.298-99.
- Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.180-85.
- White. Description of a Fossil Alga from the Chemung of New York with Remarks on the Genus Haliserites. Mus. bul. 52. 1902. p.593-605.
- Wright. Chemung Group in Yates County. Mus. rep. 35 (for 1881) 1884. p.196-98.
- Chenango county.** Beck. Sulphur Springs. Min. rep. (for 1839) 1840. p.58.
- Clarke. Report on Field-work in Chenango County. Geol. rep. 13 (for 1893) 1894. p.529-57. pl. (phot.) *Same*, Mus. rep. 47 (for 1893) 1894. p.723-51. pl. (phot.)
- Clarke. Geological Map of Part of Chenango County. Geol. rep. 15 (for 1895) 1897. facing p.42. *Same*, Mus. rep. 49 (for 1895) 1898. v.2, facing p.42.
- Clarke. Oneonta, Ithaca and Portage Groups. Geol. rep. 15 (for 1895) 1897. p.63-81. *Same*, Mus. rep. 49 (for 1895) 1898. 2:63-81.
- Dickinson. Bluestone Quarries. Mus. bul. 61. *In press*.
- Merrill. Hudson River Bluestone Quarrymen. Mus. bul. 15. 1895. p.458. *Same*, Mus. rep. 48 (for 1894) 1895. 1:458 (2d paging).
- Prosser. Geologic Map of Part of. Geol. rep. 15 (for 1895) 1897. facing p.87. *Same*, Mus. rep. 49 (for 1895) 1898. v.2, facing p.87.
- Prosser. Hamilton, Sherburne and Ithaca Formations. Geol. rep. 15 (for 1895) 1897. p.87-222. *Same*, Mus. rep. 49 (for 1895) 1898. 2:87-222.
- Prosser. Chemung Formation. Geol. rep. 17 (for 1897) 1899. p.94-105. *Same*, Mus. rep. 51 (for 1897) 1899. 2:94-105.
- Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.78-80; 10. 1890. p.271-72.
- — — revised by Merrill. Mus. bul. 15. 1895. p.405-6. *Same*, Mus. rep. 48 (for 1894) 1895. 1:405-6 (2d paging).
- Vanuxem. Chenango County. Geol. N. Y. pt3. 1842. p.292-94.
- Cherry scale insect.** Felt. Cherry Scale Insect. Mus. bul. 46. 1901. p.330-32. *Same*, Mus. rep. 54 (for 1900) 1902. 4:330-32.
- Chestnut weevils.** Lintner. Chestnut Weevils. Ent. rep. 12 (for 1896) 1897. p.267-72. *Same*, Mus. rep. 50 (for 1896) 1898. 1:267-72 (1st paging).
- China,** *see* Pottery.
- Chinch bug.** Lintner. Chinch Bug. Ent. rep. 2 (for 1882-1883) 1885. p.148-64.
- Chloanthite.** Whitlock. Chloanthite. Mus. bul. 58. 1902. p.59.
- Chlorid of lime.** Beck. Muriate of Lime. Min. N. Y. 1842. p.245-46.
- Mather. Sulphate of Magnesia, Muriate of Soda and Muriate of Lime. Geol. N. Y. pt1. 1843. p.86-88.
- Ries. Chlorid of Lime. Geol. rep. 17 (for 1897) 1899. p.384-85. *Same*, Mus. rep. 51 (for 1897) 1899. 2:384-85.
- — — Mus. bul. 44. 1901. p.658-59. *Same*, Mus. rep. 54 (for 1900) 1902. 3:658-59.
- Chlorite.** Beck. Chlorite. Min. N. Y. 1842. p.284.
- Chloritic slates.** Mather. Chloritic and Talcose Slates. Geol. rep. 1st dist. (for 1840) 1841. p.96-97.

- Chondrodite.** Beck. Chondrodite. Min. N. Y. 1842. p.281-83. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.132-33.
 Hunt. Chondrodite. Mus. rep. 21 (for 1867) 1871. p.76-77.
 Whitlock. Chondrodite. Mus. bul. 58. 1902. p.106.
- Chromite.** Beck. Chrome-iron Ore. Min. N. Y. 1842. p.400-1.
 Merrill. Localities. Mus. bul. 15. 1895. p.580. *Same*, Mus. rep. 48 (for 1894) 1895. 1:580 (2d paging).
 ——— Mus. bul. 19. 1898. p.232. *Same*, Mus. rep. 51 (for 1897) 1899. 1:232.
 Whitlock. Chromite. Mus. bul. 58. 1902. p.74.
- Chrysanthemum fly.** Lintner. Chrysanthemum Fly. Ent. rep. 4 (for 1887) 1888. p.73-80. *Same*, Mus. rep. 41 (for 1887) 1888. p.193-200.
 ——— Ent. rep. 7 (for 1890) 1891. p.242-46. *Same*, Mus. rep. 44 (for 1890) 1892. p.242-46.
- Chrysoberyl.** Beck. Chrysoberyl. Min. N. Y. 1842. p.375-77. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.145-46.
 Whitlock. Chrysoberyl. Mus. bul. 58. 1902. p.74.
- Chrysocolla.** Beck. Chrysocolla. Min. N. Y. 1842. p.449.
 Whitlock. Chrysocolla. Mus. bul. 58. 1902. p.115.
- Chrysolite.** Hunt. Chrysolite. Mus. rep. 21 (for 1867) 1871. p.76.
 Merrill. Olivine or Chrysolite. Mus. bul. 19. 1898. p.122. *Same*, Mus. rep. 51 (for 1897) 1899. 1:122.
 Whitlock. Chrysolite. Mus. bul. 58. 1902. p.99-100.
- Cicada.** Lintner. 17 Year Cicada. Ent. rep. 12 (for 1896) 1897. p.272-89. *Same*, Mus. rep. 50 (for 1896) 1898. 1:272-89 (1st paging).
- Cincinnati.** Hall. Description of New Species of Fossils from the Hudson River Group in the Vicinity of Cincinnati, O. Mus. rep. 24 (for 1870) 1872. p.225-32. pl.8.
- Cincinnati.** Clarke & Schuchert. Cincinnati. Mus. mem. 3. 1900. p.10. *Same*, Mus. rep. 53 (for 1899) 1901. 2:10.
- Cinnabar.** Whitlock. Cinnabar. Mus. bul. 58. 1902. p.55.
- Cirrhopoda.** De Kay. Cirrhopoda. Zool. N. Y. 1843. v.5. pt5. p. 250-57.
- Clams,** *see* Lamellibranchiata.
- Claudopus.** Peck. New York Species of Pleurotus, Claudopus and Crepidotus. Mus. rep. 39 (for 1885) 1886. p.58-73.
- Clavaria.** Peck. Genus Clavaria. Mus. rep. 24 (for 1870) 1872. p.104-5.
- Clays.** Beck. Materials for the Manufacture of Porcelain. Min. rep. (for 1838) 1839. p.41-42.
 Beck. Materials for Bricks, Pottery and Porcelain. Min. N. Y. 1842. p.59-60, 340.
 Carr. Clays. Geol. rep. 3d dist. (for 1839) 1840. p.386.
 Emmons. Porcelain Clay and Feldspar. Geol. rep. 2d dist. (for 1838) 1839. p.203-12.
 Emmons. Preparation of Marly and Tertiary Clays. Geol. rep. 2d dist. (for 1838) 1839. p.221-24.
 Fitch. Clays of Washington County. Ag. Soc. Trans. 9 (for 1849) 1850. p.872-78.
 Hall. Clay. Geol. rep. 4th dist. (for 1838) 1839. p.332.
 Hall. Clays of Monroe County. Geol. rep. 4th dist. (for 1837) 1838. p.332-33. Geol. N. Y. pt4. 1843. p.425-26.
 Hall. Clays of Niagara County. Geol. rep. 4th dist. (for 1837) 1838. p.363-65. Geol. N. Y. pt4. 1843. p.444-45.
 Hall. Clays of Orleans County. Geol. rep. 4th dist. (for 1837) 1838. p.354. Geol. N. Y. pt4. 1843. p.437.

Clays (*continued*)

- Hall. Clay of Wayne County. Geol. rep. 4th dist. (for 1837) 1838. p.318-19. Geol. N. Y. pt4. 1843. p.418.
- Hall. Discoloration of Sands and Clays from the Percolation of Water. Geol. N. Y. pt4. 1843. p.361-62.
- Horsford. Clay Beds of Cattaraugus County. Geol. rep. 4th dist. (for 1839) 1840. p.460.
- Horton. Clays of Orange County. Geol. rep. 1st dist. (for 1838) 1839. p.153-54.
- Lincoln. Clays of Seneca County. Geol. rep. 14 (for 1894) 1895. p.105-11. *Same*, Mus. rep. 48 (for 1894) 1895. 2:105-11.
- Luther. Clays of Onondaga County. Geol. rep. 15 (for 1895) 1897. p.288-91. *Same*, Mus. rep. 49 (for 1895) 1898. 2:288-91.
- Mather. Clays of Suffolk County. Geol. rep. 1st dist. (for 1836) 1837. p.89-91 (ed.2, p.91-93).
- Mather. Sands and Clays of Long Island and Staten Island. Geol. rep. 1st dist. (for 1837) 1838. p.136-37.
- Mather. Tertiary Clays, Loams and Marls in Columbia and Dutchess Counties. Geol. rep. 1st dist. (for 1837) 1838. p.158-59.
- Mather. Clays of Westchester and Putnam Counties. Geol. rep. 1st dist. (for 1838) 1839. p.76-79.
- Mather. Sand, Clay and Drift. Geol. rep. 1st dist. (for 1840) 1841. p.71-75.
- Mather. Clay Balls and Calcareous Concretions. Geol. N. Y. pt1. 1843. p.82-83.
- Merrill. Directory of Clay Manufacturers. Mus. bul. 15. 1895. p.502-18. *Same*, Mus. rep. 48 (for 1894) 1895. 1:502-18 (2d paging).
- Nason. Gravels, Sands and Clays of Albany County. Geol. rep. 13 (for 1893) 1894. p.266-77, 284. *Same*, Mus. rep. 47 (for 1893) 1894. p.460-71, 478.
- Ries. Quaternary Deposits of the Hudson River Valley between Croton and Albany, with notes on the brick clays and the manufacture of brick. Geol. rep. 10 (for 1890) 1891. p.110-55.
- Ries. Clay Industries of New York. Mus. bul. 12. 1895. p.93-262. 2pl. (phot.) map. *Same*, Mus. rep. 48 (for 1894) 1895. 1:93-262 (2d paging). 2pl. (phot.) map.
- Map of New York showing location of clay deposits and manufactories, 59x67cm.
- — *abridged* by Merrill. Mus. bul. 15. 1895. p.494-501. *Same*, Mus. rep. 48 (for 1894) 1895. 1:494-501 (2d paging).
- — Mus. bul. 19. 1898. p.208-13. *Same*, Mus. rep. 51 (for 1897) 1899. 1:208-13.
- Ries. Physical Tests of the Devonian Shales of New York State to determine their Value for the Manufacture of Clay Products. Geol. rep. 15 (for 1895) 1897. p.673-98. *Same*, Mus. rep. 49 (for 1895) 1898. 2:673-98.
- Ries. Brick Clays of Orange County. Geol. rep. 15 (for 1895) 1897. p.468-69. *Same*, Mus. rep. 49 (for 1895) 1898. 2:468-69.
- Ries. Champlain Clays of Adirondacks. Geol. rep. 17 (for 1897) 1899. p.511-53. *Same*, Mus. rep. 51 (for 1897) 1899. 2:511-53.
- Ries. Notes on a Trip from Port Jervis to Rondout. Mus. rep. 52 (for 1898) 1900. 1:r88-91.
- Ries. Clays of New York, their Properties and Uses. Mus. bul. 35. 1900. p.489-944. 140pl. (phot.) map. *Same*, Mus. rep. 54 (for 1900) 1902. 2:489-944. 140pl. (phot.) map.
- Contains a bibliography.
- Map of New York State showing clay and shale deposits and manufactories, 83.5x69.5cm.

Clays (*continued*)

- Ries. Clay Analyses. Mus. bul. 35. 1900. p.860-907. *Same*, Mus. rep. 54 (for 1900) 1902. 2:860-907.
- Ries. Bibliography of Clay Literature. Mus. bul. 35. 1900. p.908-12. *Same*, Mus. rep. 54 (for 1900) 1902. 2:908-12.
- Ries. Directory of Clay Workers in New York State. Mus. bul. 35. 1900. p.913-25. *Same*, Mus. rep. 54 (for 1900) 1902. 2:913-25.
- Woodworth. Clays of Long Island. Mus. bul. 48. 1901. p.621-23. *Same*, Mus. rep. 54 (for 1900) 1902. 4:621-23.
- See also* Long Island division; Pleistocene.

Climate, *see* Meteorology.

Clinochlore. Whitlock. Clinochlore. Mus. bul. 58. 1902. p.112.

Clinton county. Beck. Mineralogy. Min. rep. (for 1839) 1840. p.58-59.

Beck. Magnetic Oxide of Iron. Min. N. Y. 1842. p.17-20.

Cushing. Preliminary Report on the Geology of Clinton County. Geol. rep. 13 (for 1893) 1894. p.473-89. maps (uncolored). *Same*, Mus. rep. 47 (for 1893) 1894. p.667-83. maps (uncolored).

Cushing. Report on the Geology of Clinton County. Geol. rep. 15 (for 1895) 1897. p.21-22, 499-573. pl. (phot.) maps (uncolored). *Same*, Mus. rep. 49 (for 1895) 1898. 2:21-22, 499-573. pl. (phot.) maps (uncolored).

Map of Clinton county showing the boundary between the Cambrian and Precambrian formations (uncolored) 16.5x19.5cm.

Cushing. Geology of Rand Hill and Vicinity. Geol. rep. 19 (for 1899) 1901. p.37-82. maps. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r37-82. maps.

Geologic maps of parts of Clinton county, 33x22, 10.5x5cm.

Emmons. Clinton County. Geol. rep. 2d dist. (for 1838) 1839. p.230-34. Geol. N. Y. pt2. 1842. p.289-324.

Emmons. Iron Ores. Geol. rep. 2d dist. (for 1839) 1840. p.261-73. Geol. N. Y. pt2. 1842. p.291-308.

Emmons. Ores of Clinton and Franklin. Geol. rep. 2d dist. (for 1840) 1841. p.133-35.

Emmons. Geological Map. Geol. N. Y. pt2. 1842. pl.17.

Felt. Entomological Reports from. Ent. rep. 16 (for 1900) 1901. p.1003-4. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1003-4.

Ries. Brick Yards. Mus. bul. 12. 1895. p.194, 246. *Same*, Mus. rep. 48 (for 1894) 1895. 1:194, 246 (2d paging).

— — — Mus. bul. 35. 1900. p.709-10. *Same*, Mus. rep. 54 (for 1900) 1902. 2:709-10.

Ries. Limestones. Geol. rep. 17 (for 1897) 1899. p.432-33. *Same*, Mus. rep. 51 (for 1897) 1899. 2:432-33.

— — — *revised*. Mus. bul. 44. 1901. p.774-76. *Same*, Mus. rep. 54 (for 1900) 1902. 3:774-76.

Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.103-5; 10. 1890. p.243.

— — — *revised* by Merrill. Mus. bul. 15. 1895. p.437. *Same*, Mus. rep. 48 (for 1894) 1895. 1:437 (2d paging).

See also Adirondacks.

Clinton group. Bishop. Clinton Group of Erie County. Geol. rep. 15 (for 1895) 1897. p.390. *Same*, Mus. rep. 49 (for 1895) 1898. 2:390.

Clarke, Ruedemann & Luther. Clinton Beds of Brockport and Medina Quadrangles. Mus. bul. 52. 1902. p.517, 520, 522.

Clarke. Limestone Lenses in. Pal. rep. (for 1899) 1900. p.672-73; (for 1900) 1901. p.12-13; (for 1901) 1902. p.428-31.

Clark & Schuchert. Clinton beds. *See* New York series.

Clinton group (*continued*)

- Darton. Clinton Formation. Geol. rep. 13 (for 1893) 1894. p.218-20.
Same, Mus. rep. 47 (for 1893) 1894. p.412-14.
- Darton. Clinton Formation of Ulster County. Geol. rep. 13 (for 1893) 1894. p.307-8. *Same*, Mus. rep. 47 (for 1893) 1894. p.501-2.
- Emmons. Clinton Group. Ag. N. Y. 1846. 1:144-50.
- Geddes. Clinton Group of Onondaga County. Ag. Soc. Trans. 19 (for 1859) 1860. p.244-45.
- Grabau. Clinton Beds at Niagara. Mus. bul. 45. 1901. p.95-102. *Same*, Mus. rep. 54 (for 1900) 1902. 4:95-102.
- Hall. Argillaceous and Calcareous Shales of the Genesee and Niagara Rivers. Geol. rep. 4th dist. (for 1837) 1838. p.297-99.
- Hall. Clinton Group. Geol. N. Y. pt4. 1843. p.58-79. Pal. N. Y. 1852. 2:2-4; 1859. 3:24-27.
- Hall. Clinton Group in Monroe County. Geol. N. Y. pt4. 1843. p.422.
- Hall. Clinton Group in Niagara County. Geol. N. Y. pt4. 1843. p.440.
- Hall. Clinton Group in Orleans County. Geol. N. Y. pt4. 1843. p.433.
- Hall. Clinton Group in Wayne County. Geol. rep. 4th dist. (for 1838) 1839. p.326-29. Geol. N. Y. pt4. 1843. p.414.
- Hall. Mineral Contents. Geol. N. Y. pt 4. 1843. p.67.
- Hall. Organic Remains. Geol. N. Y. pt4. 1843. p.68-78. Pal. N. Y. 1852. 2:15-105, 296-301, 354-55.
- Lincklaen. Clinton Group; Fossils. Mus. rep. 14 (for 1860) 1861. p.52-53.
- Loomis. Siluric Fungi from Western New York. Mus. bul. 39. 1900. p.223-26. pl.16. *Same*, Mus. rep. 54 (for 1900) 1902. 3:223-26. pl.16.
- Luther. Clinton Shales of Onondaga County. Geol. rep. 15 (for 1895) 1897. p.247. *Same*, Mus. rep. 49 (for 1895) 1898. 2:247.
- Luther. Clinton Group. Geol. rep. 16 (for 1896) 1899. p.203-4. *Same*, Mus. rep. 50 (for 1896) 1899. 2:203-4.
- Merrill. Clinton Group. Mus. bul. 19. 1898. p.153. *Same*, Mus. rep. 51 (for 1897) 1899. 1:153.
- Ries. Clinton Shale. Geol. rep. 15 (for 1895) 1897. p.690. *Same*, Mus. rep. 49 (for 1895) 1898. 2:690.
- — Mus. bul. 35. 1900. p.828. *Same*, Mus. rep. 54 (for 1900) 1902. 2:828.
- Ries. Clinton Group of Cayuga county. Mus. bul. 44. 1901. p.772. *Same*, Mus. rep. 54 (for 1900) 1902. 3:772.
- Smock. Clinton Group. Mus. bul. 3. 1888. p.16-17; 10. 1890. p.221.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.387. *Same*, Mus. rep. 48 (for 1894) 1895. 1:387 (2d paging).
- — *revised* by Merrill. Mus. bul. 19. 1898. p.190-91. *Same*, Mus. rep. 51 (for 1897) 1899. 1:190-91.
- Smock. Quarries. Mus. bul. 3. 1888. p.71; 10. 1890. p.273.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.395-96. *Same*, Mus. rep. 48 (for 1894) 1895. 1:395-96 (2d paging).
- a* Vanuxem. Clinton Group. Geol. N. Y. pt3. 1842. p.79-90.
- Vanuxem. Clinton Group in Cayuga County. Geol. N. Y. pt3. 1842. p.286.
- Vanuxem. Clinton Group in Herkimer County. Geol. N. Y. pt3. 1842. p.257-58.
- Vanuxem. Clinton Group in Madison County. Geol. N. Y. pt3. 1842. p.272.
- Vanuxem. Clinton Group in Oneida County. Geol. N. Y. pt3. 1842. p.262.

Clinton group (*continued*)

- Vanuxem. Clinton Group in Onondaga County. Geol. N. Y. pt3. 1842. p.278.
- Vanuxem. Clinton Group in Oswego County. Geol. N. Y. pt3. 1842. p.271.
- Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.84, 87-90.
- White. Clinton Stage. Mus. rep. 51 (for 1897) 1899. 1:r37-44.
- Clinton ores.** Beck. Lenticular Clay Iron Ore. Min. rep. (for 1836) 1837. p.32-33 (ed. 2, p.34-35). Min. N. Y. 1842. p.26-28.
- Hall. Argillaceous Iron Ore. Geol. rep. 4th dist. (for 1837) 1838. p.299-300.
- Hall. Argillaceous Iron of Wayne County. Geol. rep. 4th dist. (for 1837) 1838. p.321-23; (for 1838) 1839. p.326-29. Geol. N. Y. pt4. 1843. p.60 62, 419.
- Hall. Oolitic or Lenticular Iron Ore. Geol. rep. 4th dist. (for 1838) 1839. p.326-29. Geol. N. Y. pt4. 1843. p.60-62.
- Merrill. Localities in New York. Mus. bul. 15. 1895. p.543. *Same*, Mus. rep. 48 (for 1894) 1895. 1:543 (2d paging).
- Smock. Clinton or Fossil Ores. Mus. bul. 7. 1889. p.11-12, 48-52.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.538-39. *Same*, Mus. rep. 48 (for 1894) 1895. 1:538-39 (2d paging).
- — — *revised* by Merrill. Mus. bul. 19. 1898. p.219-20. *Same*, Mus. rep. 51 (for 1897) 1899. 1:219-20.
- Vanuxem. Lenticular Clay Iron Ore. Geol. N. Y. pt3. 1842. p.83, 262.
- Clintonite.** Beck. Clintonite. Min. N. Y. 1842. p.361-62.
- Hunt. Clintonite. Mus. rep. 21 (for 1867) 1871. p.83.
- Clitopilus.** Peck. New York Species of Clitopilus. Bot. rep. 42 (for 1888) 1889. p.39-46. *Same*, Mus. rep. 42 (for 1888) 1889. p.135-42.
- Clothes moth.** Felt. Clothes Moth. Ag. Soc. Trans. 59 (for 1899) 1900. p.297-98.
- Clover hay caterpillar.** Lintner. Clover Hay Caterpillar. Ent. rep. 11 (for 1895) 1896. p.145-51. *Same*, Mus. rep. 49 (for 1895) 1897. 1:145-51.
- Clover leaf weevil.** Lintner. Punctured Clover Leaf Weevil. Ent. rep. 1 (for 1881) 1882. p.247-53.
- — — Ent. rep. 5 (for 1888) 1889. p.272-73. *Same*, Mus. rep. 42 (for 1888) 1889. p.272-73.
- — — Ent. rep. 7 (for 1890) 1891. p.315-16. *Same*, Mus. rep. 44 (for 1890) 1892. p.315-16.
- Coal.** Beck. Coal. Min. rep. (for 1838) 1839. p.15. Min. N. Y. 1842. p.94, 190-91.
- Carr. Excavations for Coal. Geol. rep. 3d dist. (for 1839) 1840. p.387.
- Conrad. On the Probability of Discovering Coal. Geol. rep. 3d dist. (for 1836) 1837. p.183-84 (ed. 2, p.185-86).
- Eaton. Coal Formations in the State of New York. Alb. Inst. Trans. 1830. 1:126-30.
- Hall. Improbability of Finding in New York. Geol. rep. 4th dist. (for 1837) 1838. p.289-90. Geol. N. Y. pt4. 1843. p.293-94.
- Mather. Search for Coal in the Utica Slate Group. Geol. N. Y. pt1. 1843. p.391-93.
- Merrill. Localities. Mus. bul. 15. 1895. p.582. *Same*, Mus. rep. 48 (for 1894) 1895. 1:582 (2d paging).
- — — Mus. bul. 19. 1898. p.234-35. *Same*, Mus. rep. 51 (for 1897) 1899. 1:234-35.
- Vanuxem. Coal. Geol. rep. 4th dist. (for 1836) 1837. p.195-98 (ed.2, p.197-200).
- Whitlock. Mineral Coal. Mus. bul. 58. 1902. p.130-31.

- Coal system**, *see* Carboniferous system.
- Cobalt**. Whitlock. Cobalt. Mus. bul. 58. 1902. p.59, 120-21.
- Cobaltite**. Whitlock. Cobaltite (Cobalt glance). Mus. bul. 58. 1902. p.59.
- ☉Cobleskill limestone**. Clarke. Coralline or Cobleskill Limestone. Mus. mem. 5. p.136-37. *In press*.
- Hartnagel. Preliminary Observations on the Cobleskill (Coralline) Limestone of New York. Pal. rep. (for 1902). *In press*.
- Coccolite**. Beck. Coccolite. Min. N. Y. 1842. p.287.
- See also* Pyroxene.
- Cockroach**. Felt. Cockroach. Ag. Soc. Trans. 59 (for 1899) 1900. p.299.
- Cocktail grit**. Mather. Cocktail Grit. Geol. rep. 1st dist. (for 1839) 1840. p.237.
- See also* Cauda galli grit.
- Codling moth**. Felt. Codling Moth. Ag. Soc. Trans. 59 (for 1899) 1900. p.276-77.
- Lintner. Codling Moth. Ent. rep. 9 (for 1892) 1893. p.338-42. *Same*, Mus. rep. 46 (for 1892) 1893. p.338-42.
- Coelenterata (paleozoic)**. Girty. Revision of the Sponges and Coelenterates of the Lower Helderberg Group of New York. Geol. rep. 14 (for 1894) 1895. p.16, 259-309. 7pl. *Same*, Mus. rep. 48 (for 1894) 1895. 2:16, 259-309. 7pl.
- See also* Anthozoa; Corals; Hydrozoa.
- Coeymans limestone (Helderberg; Lower Pentamerus; Pentamerus)**.
- ☉Clarke & Schuchert. Coeymans Limestone. Mus. mem. 3. 1900. p.11. *Same*, Mus. rep. 53 (for 1899) 1901. 2:11.
- Cohoes**. Smock. Stone Construction in. Mus. bul. 10. 1890. p.332-33.
- Cohoes mastodon**. Mus. rep. 20 (for 1866) 1867. p.6; 21 (for 1867) 1871. p.5, 7-9, 99-148. maps.
- Map of Cohoes and vicinity showing course of the Mohawk, 23x18.5cm.
Map of Cohoes falls and vicinity (uncolored) 67x42cm.
- Colemanite**. Whitlock. Colemanite. Mus. bul. 58. 1902. p.122-23.
- Coleoptera**. Additions to Collection. Ent. rep. 3, p.141; 4, p.207-8; 5, p.325; 6, p.188-89; 7, p.382-83; 8, p.298-99; 9, p.462-63; 10, p.510-11; 11, p.285-87; 12, p.361-62; 13, p.373-74; 14, p.255-57; 15, p.601-6; 16, p.1035-38; 17, p.809-13; 18, p.170-71.
- For dates of reports, *see* List of publications, p.264.
- Felt. Species Treated. Ent. rep. 14 (for 1898) 1898. p.158-60 (Mus. bul. 23). *Same*, Mus. rep. 52 (for 1898) 1900. 1: 158-60.
- — — Mus. bul. 20. 1898. p.5-43. *Same*, Mus. rep. 52 (for 1898) 1900. 1:5-43.
- — — Mus. bul. 57. 1902. p.3-43.
- — — Mus. bul. 59. 1902. p.51-84.
- Lintner. Species Treated. Ent. rep. 1 (for 1881) 1882. p.227-63.
- — — Ent. rep. 2 (for 1882 & 1883) 1885. p.125-44.
- — — Ent. rep. 3 (for 1886) 1887. p.98-107. *Same*, Mus. rep. 40 (for 1886) 1887. p.98-107.
- — — Ent. rep. 4 (for 1887) 1888. p.80-107, 155-56. *Same*, Mus. rep. 41 (for 1887) 1888. p.200-27, 275-76.
- — — Ent. rep. 5 (for 1888) 1889. p.227-42. *Same*, Mus. rep. 42 (for 1888) 1889. p.227-42.
- — — Ent. rep. 6 (for 1889) 1890. p.117-36. *Same*, Mus. rep. 43 (for 1889) 1890. p.117-36.

☉First use of term in report of paleontologist to secretary of Regents. Regents bulletin 59. 1903. p.42.

☉First use of term in original publication of this article. Science. 1899. new ser. 10:877.

Coleoptera (*continued*)

- — Ent. rep. 7 (for 1890) 1891. p.246-96, 310-17. *Same*, Mus. rep. 44 (for 1890) 1892. p.246-96, 310-17.
- — Ent. rep. 8 (for 1891) 1893. p.172-77. *Same*, Mus. rep. 45 (for 1891) 1892. p.172-77.
- — Ent. rep. 9 (for 1892) 1893. p.299-309. *Same*, Mus. rep. 46 (for 1892) 1893. p.299-309.
- — Ent. rep. 10 (for 1894) 1895. p.406-20. *Same*, Mus. rep. 48 (for 1894) 1895. 1:406-20 (1st paging).
- — Ent. rep. 11 (for 1895) 1896. p.172-98. *Same*, Mus. rep. 49 (for 1895) 1897. 1:172-98.
- — Ent. rep. 12 (for 1896) 1897. p.235-72. *Same*, Mus. rep. 50 (for 1896) 1898. 1:235-72 (1st paging).
- MacGillivray. Aquatic Chrysomelidae and a Table of the Families of Coleopterous Larvae. Mus. bul. 68. *In press*.
- Young. List of Coleoptera taken at Newport, Herkimer co., N. Y. Ent. rep. 18 (for 1902). p.153-61. *In press*.

Species

The following list of species includes only the more important accounts by Lintner in Ent. rep. 1-13; by Felt in Ent. rep. 14-18, Ag. Soc. Trans. 59, Forest, Fish and Game Com. rep'ts, Mus. bul. 20, and later. For dates of reports and bulletins, see p.264.

- Adalia bipunctata*. Ent. rep. 9, p.306. *Same*, Mus. rep. 46, p.306.
— Ag. Soc. Trans. 59, p.297.
- Agrilus ruficollis*. Ent. rep. 6, p.123-25. *Same*, Mus. rep. 43, p.123-25.
— Ent. rep. 10, p.406-7. *Same*, Mus. rep. 48, 1:406-7 (1st paging).
- Anomala lucicola*. Ent. rep. 10, p.408-10. *Same*, Mus. rep. 48, 1:408-10 (1st paging).
- Anthrenus scrophulariae*. Mus. rep. 30, p.127-35.
— Ent. rep. 9, p.299-306. *Same*, Mus. rep. 46, p.299-306.
— Ag. Soc. Trans. 59, p.297-98.
- Aramigus fulleri*. Ent. rep. 2, p.112-14.
- Attagenus piceus*. Ent. rep. 2, p.46-48.
— Ag. Soc. Trans. 59, p.297-98.
- Balaninus sp.* Ent. rep. 12, p.267-72. *Same*, Mus. rep. 50, 1:267-72 (1st paging).
- Balaninus nasicus*. Forest, Fish and Game Com. rep. 7. *In press*.
- Bruchus obtectus*. Ent. rep. 7, p.255-79. *Same*, Mus. rep. 44, p.255-79.
- Conotrachelus nenuphar*. Ent. rep. 7, p.288-96. *Same*, Mus. rep. 44, p.288-96.
- Crioceris asparagi*. Ent. rep. 1, p.239-46.
— Ent. rep. 11, p.177-81. *Same*, Mus. rep. 49, 1:177-81.
— Ent. rep. 15, p.540-41. (Mus. bul. 31). *Same*, Mus. rep. 53, 1:540-41.
- Crioceris 12-punctata*. Ent. rep. 12, p.248-52. *Same*, Mus. rep. 50, 1:248-52 (1st paging).
— Ent. rep. 15, p.540-41. (Mus. bul. 31). *Same*, Mus. rep. 53, 1:540-41.
- Cyllene pictus*. Ent. rep. 8, p.175-76. *Same*, Mus. rep. 45, p.175-76.
- Dendroctonus terebrans*. Forest, Fish and Game Com. rep. 7. *In press*.
- Dermestes lardarius*. Ent. rep. 6, p.119-23. *Same*, Mus. rep. 43, p.119-23.
— Ag. Soc. Trans. 59, p.300.
- Elaphidion villosum*. Ent. rep. 9, p.357-61. *Same*, Mus. rep. 46, p.357-61.
— Forest, Fish and Game Com. rep. 4, p.392-93.
- Epicauta cinerea*. Ent. rep. 6, p.134-35. *Same*, Mus. rep. 43, p.134-35.

Coleoptera (*continued*)

- Epicauta vittata*. Ent. rep. 6, p.132-34. *Same*, Mus. rep. 43, p.132-34.
Euphoria inda. Ent. rep. 1, p.232-39.
Fidia viticida. Mus. bul. 59, p.49-84.
Galerucella luteola. Ent. rep. 5, p.234-42. *Same*, Mus. rep. 42, p.234-42
 — Ent. rep. 11, p.189-96. *Same*, Mus. rep. 49, 1:189-96.
 — Ent. rep. 12, p.253-64. *Same*, Mus. rep. 50, 1:253-64 (1st paging).
 — Mus. bul. 20, p.1-43. *Same*, Mus. rep. 52, 1:1-43.
 — *revised*. Mus. bul. 57, 1902. p.1-43.
 — Ent. rep. 14, p.232-35. (Mus. bul. 23). *Same*, Mus. rep. 52, 1:232-35.
 — Ag. Soc. Trans. 59, p.279.
 — Forest, Fish and Game Com. rep. 5, p.354-59.
Lachnosterna fusca. Mus. bul. 5, 32p.
 — Ent. rep. 9, p.353-57. *Same*, Mus. rep. 46, p.353-57.
Macrodactylus subspinosus. Ent. rep. 1, p.227-32.
Magdalis barbata. Mus. bul. 37, p.22. *Same*, Mus. rep. 54, 3:22.
 — Forest, Fish and Game Com. rep. 5, p.374.
Monarthrum mali. Forest, Fish and Game Com. rep. 7. *In press*.
Monohammus confusor. Forest, Fish and Game Com. rep. 7. *In press*.
Phlaeosinus dentatus. Forest, Fish and Game Com. rep. 7. *In press*.
Phytonomus punctatus. Ent. rep. 1, p.247-53.
 — Ent. rep. 5, p.272-73. *Same*, Mus. rep. 42, p.272-73.
 — Ent. rep. 7, p.315-16. *Same*, Mus. rep. 44, p.315-16.
Pissodes strobi. Forest, Fish and Game Com. rep. 7. *In press*.
Pitogenes sp. Forest, Fish and Game Com. rep. 7. *In press*.
Plagionotus speciosus. Ent. rep. 12, p.237-48. *Same*, Mus. rep. 50, 1:237-48 (1st paging).
 — Forest, Fish and Game Com. rep. 4, p.386-92.
 — Ag. Soc. Trans. 59, p.277-78.
Polygraphus rufipennis. Forest, Fish and Game Com. rep. 7. *In press*.
Rhagium lineatum. Forest, Fish and Game Com. rep. 7. *In press*.
Saperda, Monograph of Genus. Mus. bul. *In press*.
Saperda candida. Ent. rep. 5, p.269-71. *Same*, Mus. rep. 42, p.269-71.
Saperda tridentata. Ent. rep. 12, p.243-48. *Same*, Mus. rep. 50, 1:243-48 (1st paging).
 — Ag. Soc. Trans. 59, p.278-79.
 — Forest, Fish and Game Com. rep. 5, p.371-75.
Scolytus rugulosus. Ent. rep. 4, p.103-7. *Same*, Mus. rep. 41, p.223-27.
Tenebrio molitor. Ent. rep. 8, p.176-77. *Same*, Mus. rep. 45, p.176-77.
Tomicus balsameus. Forest, Fish and Game Com. rep. 7. *In press*.
Tomicus cacographus. Forest, Fish and Game Com. rep. 7. *In press*.
Tomicus caelatus. Forest, Fish and Game Com. rep. 7. *In press*.
Tomicus calligraphus. Forest, Fish and Game Com. rep. 7. *In press*.
Tomicus pini. Forest, Fish and Game Com. rep. 7. *In press*.
Xyleborus dispar. Ent. rep. 7, p.348-51. *Same*, Mus. rep. 44, p.348-51.
- Collybia**. Peck. New York Species of Collybia. Bot. rep. 49 (for 1895) 1896, p.32-55. *Same*, Mus. rep. 49 (for 1895) 1897. 1:46-69.
- Columbia county**. Beck. Mineralogy. Min. rep. (for 1839) 1840. p.59-60.
 Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.553-54. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:553-54.
 Mather. Economic Geology. Geol. rep. 1st dist. (for 1837) 1838. p.142-84.

Columbia county (*continued*)

- Mather. Hudson River Group. Geol. N. Y. pt1. 1843. p.385-89.
- Mather. Taconic Rocks. Geol. N. Y. pt1. 1843. p.422-33.
- Mather. Limonites and Hematite. Geol. N. Y. pt1. 1843. p.491-98.
- Mather. Dip and Strike of Rocks. Geol. N. Y. pt1. 1843. p.613-14.
- Ries. Brick Yards. Mus. bul. 12. 1895. p.188-89, 244. *Same*, Mus. rep. 48 (for 1894) 1895. 1:188-89, 244 (2d paging).
- — Mus. bul. 35. 1900. p.703-4. *Same*, Mus. rep. 54 (for 1900) 1902. 2:703-4.
- Ries. Limestones. Geol. rep. 17 (for 1897) 1899. p.431. *Same*, Mus. rep. 51 (for 1897) 1899. 2:431.
- — *revised*. Mus. bul. 44. 1901. p.776-77. *Same*, Mus. rep. 54 (for 1900) 1902. 3:776-77.
- Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.42, 97; 10. 1890. p.239-40.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.434. *Same*, Mus. rep. 48 (for 1894) 1895. 1:434 (2d paging).
- Smock. Limonites. Mus. bul. 7. 1889. p.12-13, 52-61.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.539-41. *Same*, Mus. rep. 48 (for 1894) 1895. 1:539-41 (2d paging).
- — *revised* by Merrill. Mus. bul. 19. 1898. p.220-21. *Same*, Mus. rep. 51 (for 1897) 1899. 1:220-21.
- Smock. Carbonate Ores. Mus. bul. 7. 1889. p.13-14, 62-65.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.541-42. *Same*, Mus. rep. 48 (for 1894) 1895. 1:541-42 (2d paging).
- — *revised* by Merrill. Mus. bul. 19. 1898. p.221-22. *Same*, Mus. rep. 51 (for 1897) 1899. 1:221-22.
- See also* Becraft mountain.
- Columbite**. Beck. Columbite. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.151. Min. N. Y. 1842. p.449.
- Whitlock. Columbite. Mus. bul. 58. 1902. p.116-17.
- Combustible minerals**. Beck. Combustible Minerals. Min. N. Y. 1842. p.94-98.
- Conchology**, *see* Mollusca.
- Conesus lake**. Hall. Conesus Lake. Geol. N. Y. pt4. 1843. p.407.
- Conglomerate limestone**. Mather. Brecciated and Conglomerate Limestone. Geol. N. Y. pt1. 1843. p.406-9.
- Conglomerates**. Mather. Alluvial Sandstones and Conglomerates. Geol. N. Y. pt1. 1843. p.122-23, 236.
- Mather. Red and Grey Conglomerate. Geol. N. Y. pt1. 1843. p.286-87.
- See also* Carboniferous system.
- Conularida (paleozoic)**. Grabau. Conularida of Niagara Region. Mus. bul. 45. 1901. p.213-14. *Same*, Mus. rep. 54 (for 1900) 1902. 4:213-14.
- Copper**. Beck. Copper. Min. N. Y. 1842. p.420-27. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.150.
- Emmons. Copper. Geol. rep. 2d dist. (for 1836) 1837. p.124 (ed.2, p.126).
- Emmons. Copper in St Lawrence County. Geol. rep. 2d dist. (for 1837) 1838. p.212-13.
- Mather. Lead, Copper and Zinc Ores of Columbia and Dutchess Counties. Geol. rep. 1st dist. (for 1837) 1838. p.176-81.
- Mather. Copper Ores. Geol. N. Y. pt1. 1843. p.500-9.
- Vanuxem. Copper. Geol. rep. 4th dist. (for 1836) 1837. p.200 (ed.2, p.202).

Copper (*continued*)

Watson. Copper in Essex County. Ag. Soc. Trans. 12 (for 1852) 1853. p.792-93; 13 (for 1853) 1854. p.718-19.

Whitlock. Copper. Mus. bul. 58. 1902. p.50, 54, 57, 62, 63, 66, 69, 86-87, 115, 120, 126.

Copper pyrites, *see* Chalcopyrite.

Copperas. Beck. Copperas. Min. N. Y. 1842. p.399-400.

Mather. Sulphate of Iron. Geol. N. Y. pt.1. 1843. p.114-19.

Coprinus. Peck. Genus Coprinus. Mus. rep. 23 (for 1869) 1873. p.103-5.

Coralline limestone (Cobleskill; Niagara). Clarke. Coralline or Cobleskill Limestone. Mus. mem. 5. p.136-37. *In press*.

Hall. Organic Remains. Pal. N. Y. 1852. 2:321-38.

See also Cobleskill limestone; Niagara limestone.

Corals. Beecher. Synoptical Table of the Genera and Species described in v.6 of the Palaeontology of New York. Mus. rep. 41 (for 1887) 1888. p.363-75.

Clarke. Type Specimens in New York State Museum. Mus. bul. 65. *In press*.

Hall. Fossil Corals of Lower Silurian. Pal. N. Y. 1847. v.1 (various page references, *see* Table, p.322).

Hall. Corals of Clinton Group. Pal. N. Y. 1852. 2:38, 354-55.

Hall. Corals of Niagara Group. Pal. N. Y. 1852. 2:109-76, 354-55.

Hall. Corals of Coralline Limestone. Pal. N. Y. 1852. 2:321-25.

Hall. Descriptions of Bryozoa and Corals of the Lower Helderberg Group. Mus. rep. 26 (for 1872) 1874. p.93-115.

— *revised*. Mus. rep. 32 (for 1878) 1879. p.141-76.

— — 33 plates and explanations illustrating Corals and Bryozoans of Upper and Lower Helderberg Groups. Geol. rep. 2 (for 1882) 1883.

Hall. Illustrations of Devonian Fossils. Corals. 1876.

Hall. Corals and Bryozoa of Niagara group in central Indiana. Mus. rep. 28 (for 1874) 1879. p.106-26.

Hall. Descriptions of Fossil Corals from the Niagara and Upper Helderberg Groups. Mus. rep. 35 (for 1881) 1884. p.407-64, pl.23-30.

Hall & Simpson. Corals and Bryozoa of the Lower and Upper Helderberg and Hamilton Groups. Pal. N. Y. 1887. v.6. 298p. 67pl.

Hall. Discussion of Streptelasma and Allied Genera of Rugose Corals. Geol. rep. 15 (for 1895) 1897. 1:24-25. *Same*, Mus. rep. 49 (for 1895) 1898. 2:24-25.

Simpson. Glossary and Explanations of Specific Names of Bryozoa and Corals described in v.6, Palaeontology of New York and Other Reports. Geol. rep. 13 (for 1893) 1894. p.729-47. *Same*, Mus. rep. 47 (for 1893) 1894. p.923-41.

Simpson. Preliminary Descriptions of New Genera of Palaeozoic Rugose Corals. Mus. bul. 39. 1900. p.199-222. *Same*, Mus. rep. 54 (for 1900) 1902. 3:199-222.

See also Anthozoa; Coelenterata.

Corn worm. Lintner. Corn Worm. Ent. rep. 1 (for 1881) 1882. p.116-26.

Corniferous limestone (Onondaga; Seneca; Upper Helderberg). Bishop. Corniferous Limestone of Erie County. Geol. rep. 15 (1895) 1897. p.313-15, 332-33, 390. *Same*, Mus. rep. 49 (for 1895) 1898. 2:313-15, 332-33, 390.

Clarke. Corniferous Limestone in Ontario County. Geol. rep. 4 (for 1884) 1885. p.10.

^aTerm originated by Gebhard.

^bTerm Corniferous limerock first used by Eaton. Amer. Jour. of Science. 1839. ser. 1. 36:61-71.

Corniferous limestone (*continued*)

- Conrad. Corniferous Limestone. Pal. rep. (for 1840) 1841. p.31.
- Geddes. Corniferous Limestone of Onondaga County. Ag. Soc. Trans. 19 (for 1859) 1860. p.251-52.
- Hall. Corniferous Limestone. Geol. N. Y. pt4. 1843. p.161-76.
- Hall. Corniferous Limestone of Erie County. Geol. rep. 4th dist. (for 1840) 1841. p.158. Geol. N. Y. pt4. 1843. p.471-72.
- Hall. Corniferous Limestone of Genesee County. Geol. N. Y. pt4. 1843. p.466.
- Hall. Corniferous Limestone of Livingston County. Geol. N. Y. pt4. 1843. p.460-61.
- Hall. Corniferous Limestone of Ontario County. Geol. N. Y. pt4. 1843. p.456-57.
- Hall. Corniferous Limestone of Seneca County. Geol. N. Y. pt4. 1843. p.450 51.
- Hall. Organic Remains. Geol. N. Y. pt4. 1843. p.170-76.
- Lincklaen. Corniferous Limestone. Mus. rep. 14 (for 1860) 1861. p.60-61.
- Lincoln. Corniferous Limestone of Seneca County. Geol. rep. 14 (for 1894) 1895. p.88, 90-92, 102. *Same*, Mus. rep. 48 (for 1894) 1895. 2:88, 90-92, 102.
- Luther. Corniferous Limestone in Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p.44-47. *Same*, Mus. rep. 47 (for 1893) 1894. p.238-41.
- Luther. Corniferous Limestone of Onondaga County. Geol. rep. 15 (for 1895) 1897. p.275-79. *Same*, Mus. rep. 49 (for 1895) 1898. 2:275-79.
- Mather. Corniferous Limestone. Geol. rep. 1st dist. (for 1839) 1840. p.237. Geol. N. Y. pt1. 1843. p.337-38.
- Mather. Fossils. Geol. N. Y. pt1. 1843. p.337-38.
- Ries. Use of Term. Geol. rep. 17 (for 1897) 1899. p.366. *Same*, Mus. rep. 51 (for 1897) 1899. 2:366.
- Ries. Corniferous Limestone. Mus. bul. 44. 1901. p.765. *Same*, Mus. rep. 54 (for 1900) 1902. 3:765.
- Ries. Corniferous Limestone of Cayuga County. Mus. bul. 44. 1901. p.772. *Same*, Mus. rep. 54 (for 1900) 1902. 3:772.
- Ries. Corniferous Limestone of Erie County. Geol. rep. 17 (for 1897) 1899. p.436. *Same*, Mus. rep. 51 (for 1897) 1899. 2:436.
- *revised*. Mus. bul. 44. 1901. p.779-80, 781. *Same*, Mus. rep. 54 (for 1900) 1902. 3:779-80, 781.
- Ries. Corniferous Limestone of Greene County. Mus. bul. 44. 1901. p.786. *Same*, Mus. rep. 54 (for 1900) 1902. 3:786.
- Ries. Corniferous Limestone of Livingston County. Mus. bul. 44. 1901. p.792-93. *Same*, Mus. rep. 54 (for 1900) 1902. 3:792-93.
- Ries. Corniferous Limestone of Onondaga County. Mus. bul. 44. 1901. p.807. *Same*, Mus. rep. 54 (for 1900) 1902. 3:807.
- Smock. Corniferous Limestone. Mus. bul. 3. 1888. p.22; 10. 1890. p.213.
- *revised* by Merrill. Mus. bul. 15. 1895. p.428. *Same*, Mus. rep. 48 (for 1894) 1895. 1:428 (2d paging).
- *revised* by Merrill. Mus. bul. 19. 1898. p.202. *Same*, Mus. rep. 51 (for 1897) 1899. 1:202.
- Smock. Quarries. Mus. bul. 3. 1888. p.94-134; 10. 1890. p.238-55.
- *revised* by Merrill. Mus. bul. 15. 1895. p.432-47. *Same*, Mus. rep. 48 (for 1894) 1895. 1:432-47 (2d paging).
- Vanuxem. Corniferous Limerock. Geol. rep. 3d dist. (for 1839) 1840. p.378. Geol. N. Y. pt3. 1842. p.139-46.
- Vanuxem. Corniferous Limerock in Cayuga County. Geol. N. Y. pt3. 1842. p.288.

Corniferous limestone (*continued*)

- Vanuxem. Corniferous Limerock in Herkimer County. Geol. N. Y. pt3. 1842. p.258.
- Vanuxem. Corniferous Limerock in Madison County. Geol. N. Y. pt3. 1842. p.274.
- Vanuxem. Corniferous Limerock in Oneida County. Geol. N. Y. pt3. 1842. p.263.
- Vanuxem. Corniferous Limerock in Onondaga County. Geol. N. Y. pt3. 1842. p.284.
- Vanuxem. Corniferous Limerock in Otsego County. Geol. N. Y. pt3. 1842. p.253.
- Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.140-41, 146.
- See also* Onondaga limestones; Seneca limestone; Upper Helderberg group.
- Cornplanter tomahawk.** Mus. rep. 4 (for 1850) 1851. p.99-101.
- Cortinarius.** Peck. Genus Cortinarius. Mus. rep. 23 (for 1869) 1873. p.105-12
- Cortland county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.60.
- Clarke. Geological Map of Part of Cortland County. Geol. rep. 15 (for 1895) 1897. facing p.42. *Same*, Mus. rep. 49 (for 1895) 1898. v.2, facing p.42.
- Clarke. Oneonta, Ithaca and Portage Groups. Geol. rep. 15 (for 1895) 1897. p.63-81. *Same*, Mus. rep. 49 (for 1895) 1898. 2:63-81.
- Ries. Brick Yards. Mus. bul. 12. 1895. p.211, 250. *Same*, Mus. rep. 48 (for 1894) 1895. 1:211, 250 (2d paging).
- Mus. bul. 35. 1900. p.731. *Same*, Mus. rep. 54 (for 1900) 1902. 2:731.
- Vanuxem. Cortland County. Geol. N. Y. pt3. 1842. p.289-91.
- Corundum.** Beck. Corundum. Min. N. Y. 1842. p.314-15.
- Hunt. Corundum. Mus. rep. 21 (for 1867) 1871. p.85-86.
- Whitlock. Corundum. Mus. bul. 58. 1902. p.70.
- See also* Emery.
- Crabs.** Paulmier. The Edible Crab. Mus. rep. 55 (for 1901). *In press*.
- Craterellus.** Peck. New York Species of Craterellus. Mus. bul. 2. 1887. p.44-48.
- Crepidotus.** Peck. New York Species of Pleurotus, Claudopus and Crepidotus. Mus. rep. 39 (for 1885) 1886. p.58-73.
- Cretaceous system.** Conrad. Cretaceous System. Pal. rep. (for 1840) 1841. p.44-46.
- Meek. Descriptions of New Organic Remains from the Cretaceous Rocks of Vancouver's Island. Alb. Inst. Trans. 1858-64. 4:37-49.
- Merrill. Cretaceous System. Mus. bul. 19. 1898. p.173-74. *Same*, Mus. rep. 51 (for 1897) 1899. 1:173-74.
- Merrill. Life of the Cretaceous Period. Mus. bul. 19. 1898. p.174. *Same*, Mus. rep. 51 (for 1897) 1899. 1:174.
- Crickets,** *see* Orthoptera.
- Crinoidal limestone,** *see* Encrinal limestone.
- Crinoidea (paleozoic),** *see* Echinoderma.
- Crocoite.** Whitlock. Crocoite. Mus. bul. 58. 1902. p.126.
- Crooked lake,** *see* Kenka lake.
- Cross lake.** Geddes. Cross Lake. Ag. Soc. Trans. 19 (for 1859) 1860. p.260-61.
- Croton bug.** Felt. Croton Bug. Ag. Soc. Trans. 59 (for 1899) 1900. p.299.

- Crustacea.** Catalogues. Mus. rep. 3 *rev. ed.* p.24; 7, p.41; 8, p.22; 22, p.15; 46, p.22.
For dates of Mus. rep., see List of publications, p.241.
- De Kay. Crustacea. Assembly doc. 1840, no.50, p.13, 35-36. Zool. N. Y. 1844. v.5. pt6. 70p. 13pl.
- Eights. Description of a New Crustacean Animal found on the Shores of South Shetland Islands, with Remarks on their Natural History. Alb. Inst. Trans. 1833-52. 2:53-69.
- Eights. Description of a New Animal belonging to the Crustacea, discovered in the Antarctic Seas. Alb. Inst. Trans. 1833-52. 2:331-34. 2pl.
- Paulmier. The Edible Crab. Mus. rep. 55 (for 1901). *In press.*
- Stoller. Two New Land Isopods. Mus. rep. 54 (for 1900) 1902. p.208-13.
- Crustacea (paleozoic).** Clarke. List of the Type Specimens of Devonian Crustacea described in Palaeontology of New York, v.7, in the New York State Museum. Geol. rep. 8 (for 1888) 1889. p.24-27. *Same*, Mus. rep. 42 (for 1888) 1889. p.370-73.
- Clarke. Genus Bronteus in the Chemung Rocks of New York. Geol. rep. 8 (for 1888) 1889. p.57-59. *Same*, Mus. rep. 42 (for 1888) 1889. p.403-5.
- Clarke. Genus Acidaspis. Geol. rep. 10 (for 1890) 1891. p.61-71. 3pl. *Samè*, Mus. rep. 44 (for 1890) 1892. p.91-101. 3pl.
- Clarke. Coronura aspectans, Conrad (sp.); the Asaphus diurus, Green. Geol. rep. 10 (for 1890) 1891. p.79-83. pl.4. *Same*, Mus. rep. 44 (for 1890) 1892. p.105-9. pl.4.
- Clarke. Terataspis grandis, Hall, the Largest Known Trilobite. Geol. rep. 10 (for 1890) 1891. p.87-90. pl.5. *Same*, Mus. rep. 44 (for 1890) 1892. p.111-14. pl.5.
- Clarke. List of the Original and Illustrated Specimens in the Palaeontological Collections. Pt1, Crustacea. Geol. rep. 11 (for 1891) 1892. p.57-121. *Same*, Mus. rep. 45 (for 1891) 1892. p.373-437.
- Clarke. On Cordania; a Proposed New Genus of Trilobites. Geol. rep. 11 (for 1891) 1892. p.124-27. *Same*, Mus. rep. 45 (for 1891) 1892. p.440-43.
- Clarke. Notes on Some Crustaceans from the Chemung Group of New York. Geol. rep. 15 (for 1895) 1897. p.729-38. *Same*, Mus. rep. 49 (for 1895) 1898. 2:729-38.
- Clarke. Oriskany Species of Becraft Mountain. Mus. mem. 3. 1900. p.15-26. *Same*, Mus. rep. 53 (for 1899) 1901. 2:15-26.
- Clarke. Notes on Paleozoic Crustaceans. Pal. rep. (for 1900) 1901. p.83-119. 4pl. *Same*, Mus. rep. 54 (for 1900) 1902. 1:83-119. 4pl. (apx. 1)
Contents: Genus Pseudoniscus; Phyllocarida from the Black Shale Beds at Base of Salina Beds in Western New York; Some Devonian Phyllocarida from New York; Phyllopod Crustacean in the Oneonta-Catskill Sediments in Eastern New York; Estheria ortonii, *sp. nov.*
- Clarke. Type Specimens in New York State Museum. Mus. bul. 65. *In press.*
- Grabau. Crustacea of Hamilton Group. Geol. rep. 16 (for 1896) 1899. p.241-43. *Same*, Mus. rep. 50 (for 1896) 1899. 2:241-43.
- Grabau. Crustacea of Niagara Region. Mus. bul. 45. 1901. p.218-31. *Same*, Mus. rep. 54 (for 1900) 1902. 4:218-31.
- Hall. Crustacea of Lower Silurian. Pal. N. Y. 1847. v.1 (various page references, see Table, p.329).
- Hall. Tracks of Crustacea in Clinton Group. Pal. N. Y. 1852. 2:26-37, 353-54.
- Hall. Crustacea of Clinton and Niagara Groups. Pal. N. Y. 1852. 2:296-318.
- Hall. Crustacea of Coralline Limestone. Pal. N. Y. 1852. 2:337-38.
- Hall. Crustacea of Lower Helderberg Group. Pal. N. Y. 1859. 3:350-81
- Hall. Crustacea of Waterlime Group. Pal. N. Y. 1859. 3:382-424.

Crustacea (paleozoic) (continued)

- Hall. Trilobites of the Shales of the Hudson River Group. Mus. rep. 12 (for 1858) 1859. p.59-62. illus. *Same*, Pal. N. Y. 1859. 3:525-29.
- Hall. Note upon the Trilobites of the Shales of the Quebec Group in the Town of Georgia, Vt. Mus. rep. 13 (for 1859) 1860. p.113-19. illus.; 15 (for 1861) 1862. p.114, 196.
- Hall. Preliminary Notice of the Trilobites and Other Crustacea of the Upper Helderberg, Hamilton and Chemung Groups. Mus. rep. 15 (for 1861) 1862. p.82-114; 16 (for 1862) 1863. p.223-25.
- Hall. On the Occurrence of Crustacean Remains of the Genera *Ceratiocaris* and *Dithyrocaris*, with a notice of some new species from the Hamilton group and Genesee slate. Mus. rep. 16 (for 1862) 1863. p.71-75.
- Hall. Crustacea of Potsdam Sandstone. Mus. rep. 16 (for 1862) 1863. p.137-82.
- Hall. *Lichas grandis*. Mus. rep. 16 (for 1862) 1863. p.223-25.
- Hall. Crustacea of Niagara Group. Mus. rep. 20 (for 1866) 1867. p.330-41, 375-78.
- Hall. Illustrations of Devonian Fossils. Crustacea. 1876.
- Hall. Crustacea of Niagara Group in Central Indiana. Mus. rep. 28 (for 1874) 1879. p.186-99.
- Hall. Description of a New Species of *Stylonurus* from the Catskill Group. Mus. rep. 36 (for 1882) 1883. p.76-77. pl.5.
- Hall & Clarke. Trilobites and Other Crustacea of the Oriskany, Upper Helderberg, Hamilton, Portage, Chemung and Catskill Groups. Pal. N. Y. 1888. v.7. 236p. 46pl.
- Hall. Crustacean Tracks from Potsdam Sandstone of Port Henry, N. Y. Mus. rep. 42 (for 1888) 1889. p.25-34. 1pl.
- Hall. Report on v.7 of the Palaeontology of New York. Geol. rep. 8 (for 1888) 1889. p.5-15. *Same*, Mus. rep. 42 (for 1888) 1889. p.351-61.
- Hall. Synoptical Table to the Genera and Species of Devonian Crustacea described in v.7 of the Palaeontology of New York. Geol. rep. 8 (for 1888) 1889. p.16-23. *Same*, Mus. rep. 42 (for 1888) 1889. p.362-67.
- Hall. Genera and Species, not Devonian, described or illustrated in v.7 of the Palaeontology of New York. Geol. rep. 8 (for 1888) 1889. p.22. *Same*, Mus. rep. 42 (for 1888) 1889. p.368.
- Hall. Summary of the North American Devonian Crustacea (exclusive of the Ostracoda). Geol. rep. 8 (for 1888) 1889. p.23. *Same*, Mus. rep. 42 (for 1888) 1889. p.369.
- Logan. On the Track of an Animal lately found in the Potsdam Formation. Mus. rep. 42 (for 1888) 1889. p.30-34.
- Ruedemann. New Species of Crustacea of Hudson River Beds near Albany. Mus. bul. 42. 1901. p.575-81. *Same*, Mus. rep. 54 (for 1900) 1902. 3:575-81.
- Ruedemann. Crustacea of Trenton Conglomerate of Rysedorph Hill. Mus. bul. 49. 1901. p.41-89.
- Sarle. A New Eurypterid Fauna from the Base of the Salina of Western New York. Pal. rep. (for 1902). *In press*.
- Walcott. Preliminary Notice of the Discovery of the Remains of the Natatory and Branchial Appendages of Trilobites. Mus. rep. 28 (for 1874) 1879. p.89-92.
- Walcott. Some Sections of Trilobites from the Trenton Limestone. Mus. rep. 31 (for 1877) 1879. p.61-63. 1pl.
- Walcott. Note upon the Legs of Trilobites. Mus. rep. 31 (for 1877) 1879. p.64. 1pl.
- Walcott. Note on the Eggs of the Trilobite. Mus. rep. 31 (for 1877) 1879. p.66-67.

Crustacea (paleozoic) (continued)

Wood, Crustacea of Marcellus (Stafford) Limestones of Lancaster, Erie Co. N. Y. Mus. bul. 49. 1901. p.172-74.

Woodworth. On the Sedentary Impression of the Animal whose Trail is known as Climactichnites. Pal. rep. (for 1902). *In press.*

Cryolite. Whitlock. Cryolite. Mus. bul. 58. 1902. p.65-66.

aCrystalline rocks. Cushing. Crystalline Rocks of Clinton County. Geol. rep. 13 (for 1893) 1894. p.476. *Same*, Mus. rep. 47 (for 1893) 1894. p.670.

— — — Geol. rep. 15 (for 1895) 1897. p.506-73. *Same*, Mus. rep. 49 (for 1895) 1898. 2:506-73.

Cushing. Report on the Boundary between the Potsdam and Pre-Cambrian Rocks North of the Adirondacks. Geol. rep. 16 (for 1896) 1899. p.1-27. map (uncolored) 18x31cm. *Same*, Mus. rep. 50 (for 1896) 1899. 2:1-27. map (uncolored) 18x31cm.

Cushing. Precambrian Rocks of Franklin County. Geol. rep. 18 (for 1898) 1899. p.89-123. *Same*, Mus. rep. 52 (for 1898) 1900. 2:89-123.

Cushing. Geology of Rand Hill and Vicinity, Clinton County. Geol. rep. 19 (for 1899) 1901. p.r37-82. maps. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r37-82. maps.

Geologic maps of parts of Clinton county, 33x22, 10.5x5cm.

Cushing. Recent Geologic Work in Franklin and St Lawrence Counties. Geol. rep. 20 (for 1900) 1902. p.r25-82. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r25-82.

With analyses.

Cushing. Pre-Cambrian Outlier at Little Falls. Geol. rep. 20 (for 1900) 1902. 1:r83-95. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r83-95.

Cushing. Geology of the Vicinity of Little Falls. Mus. bul. *In press.*

Finlay. Preliminary Report of Field Work in the Town of Minerva, Essex County. Geol. rep. 20 (for 1900) 1902. p.r96-102. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r96-102.

Kemp. Crystalline Rocks of Essex County. Geol. rep. 13 (for 1893) 1894. p.444-72. *Same*, Mus. rep. 47 (for 1893) 1894. p.638-66.

— — — Geol. rep. 15 (for 1895) 1897. p.580-608. *Same*, Mus. rep. 49 (for 1895) 1898. 2:580-608.

Kemp. Geology of Moriah and Westport Townships, Essex County. Mus. bul. 14. 1895. p.325-40. *Same*, Mus. rep. 48 (for 1894) 1895. 1:325-40 (2d paging).

Kemp. Crystalline Limestone of Lake Placid Region. Mus. bul. 21. 1898. p.53-54, 60. *Same*, Mus. rep. 52 (for 1898) 1900. 1:53-54, 60.

Kemp & Newland. Preliminary Report on the Geology of Washington, Warren and Parts of Essex and Hamilton Counties. Geol. rep. 17 (for 1897) 1899. p.499-553. maps (uncolored). *Same*, Mus. rep. 51 (for 1897) 1899. 2:499-553. maps (uncolored).

Kemp, Newland & Hill. Precambrian Limestones of Adirondacks. Geol. rep. 18 (for 1898) 1899. p.145-62. *Same*, Mus. rep. 52 (for 1898) 1900. 2:145-62.

Kemp & Hill. Precambrian Formations in Parts of Warren, Saratoga, Fulton and Montgomery Counties. Geol. rep. 19 (for 1899) 1901. p.r17-35. pl. (phot.) maps. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r17-35. pl. (phot.) maps.

Small uncolored geologic maps, map of the "Noses" (colored).

Merrill. Crystalline Limestone. Mus. bul. 19. 1898. p.126. *Same*, Mus. rep. 51 (for 1897) 1899. 1:126.

Merrill. Geology of the Crystalline Rocks of Southeastern New York. Mus. rep. 50 (for 1896) 1898. 1:21-31 (1st paging).

Ries. Crystalline Limestones of New York County. Mus. bul. 44. 1901. p.800. *Same*, Mus. rep. 54 (for 1900) 1902. 3:800.

Crystalline rocks (*continued*)

- Ries. Crystalline Rocks of Orange County. Geol. rep. 15 (for 1895) 1897. p.399-400. *Same*, Mus. rep. 49 (for 1895) 1898. 2:399-400.
- Ries. Crystalline Limestones of St Lawrence County. Geol. rep. 17 (for 1897) 1899. p.454-55. *Same*, Mus. rep. 51 (for 1897) 1899. 2:454-55.
- — — *revised*. Mus. bul. 44. 1901. p.813-15. *Same*, Mus. rep. 54 (for 1900) 1902. 3:813-15.
- Ries. Crystalline Limestones of Westchester County. Geol. rep. 17 (for 1897) 1899. p.462-67. *Same*, Mus. rep. 51 (for 1897) 1899. 2:462-67.
- — — Mus. bul. 44. 1901. p.832-33. *Same*, Mus. rep. 54 (for 1900) 1902. 3:832-33.
- Smock. Geological Reconnaissance in the Crystalline Rock Region: Dutchess, Putnam and Westchester Counties, N. Y. Mus. rep. 39 (for 1885) 1886. p.165-85, map.
Map of Archean areas of Highlands (uncolored) 11x18.5cm.
- Smock. Crystalline Rocks. Mus. bul. 3. 1888. p.9-14; 10. 1890. p.202-7.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.372-75. *Same*, Mus. rep. 48 (for 1894) 1895. 1:372-75 (2d paging).
- — — *revised* by Merrill. Mus. bul. 19. 1898. p.181-84. *Same*, Mus. rep. 51 (for 1897) 1899. 1:181-84.
- Smock. Quarries. Mus. bul. 3. 1888. p.25-36; 10. 1890. p.228-34.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.375-80. *Same*, Mus. rep. 48 (for 1894) 1895. 1:375-80 (2d paging).
- Smyth. Crystalline Limestone of St Lawrence and Jefferson Counties. Geol. rep. 13 (for 1893) 1894. p.493-98. *Same*, Mus. rep. 47 (for 1893) 1894. p.687-92.
- Smyth. Report on the Crystalline Rocks of St Lawrence County. Geol. rep. 15 (for 1895) 1897. p.20-21, 477-97. *Same*, Mus. rep. 49 (for 1895) 1898. 2:20-21, 477-97.
- Smyth. Report on Crystalline Rocks of the Western Adirondack Regions. Geol. rep. 17 (for 1897) 1899. p.469-97. pl. (phot.) *Same*, Mus. rep. 51 (for 1897) 1899. 2:469-97. pl. (phot.)
- Smyth & Newland. Mapping Crystalline Rocks of Western Adirondacks. Geol. rep. 18 (for 1898) 1899. p.129-35. *Same*, Mus. rep. 52 (for 1898) 1900. 2:129-35.
- Smyth. Geology of the Crystalline Rocks in the Vicinity of the St Lawrence River. Geol. rep. 19 (for 1899) 1901. p.83-104. pl. (phot.) map. *Same*, Mus. rep. 53 (for 1899) 1901. 1:83-104. pl. (phot.) map.
Geologic map of portions of St Lawrence and Jefferson counties, 26.5x16.5cm.
- White. Crystalline Rocks of Oneida and Lewis Counties. Mus. rep. 51 (for 1897) 1899. 1:25-26.
- See also* Anorthosites; Archaean; Gabbros; Gneiss; Granite; Laurentian system; Norite; Primitive limestone; Syenites; Trap.
- Cuprite.** Beck. Red Copper Ore. Min. N. Y. 1842. p.421.
- Merrill. Localities. Mus. bul. 15. 1895. p.580. *Same*, Mus. rep. 48 (for 1894) 1895. 1:580 (2d paging).
- — — Mus. bul. 19. 1898. p.232. *Same*, Mus. rep. 51 (for 1897) 1899. 1:232.
- Whitlock. Cuprite. Mus. bul. 58. 1902. p.69.
- Currant borer. Lintner. Red-breasted Saw-fly. Ent. rep. 13 (for 1897) 1898. p.335-37. *Same*, Mus. rep. 51 (for 1897) 1899. 1:335-37.
- Currant sawfly. Fitch. Currant Sawfly. Ag. Soc. Trans. 27 (for 1867) 1868. p.909-32 (rep. 12)
- Liutner. Currant Sawfly. Ent. rep. 2 (for 1882 and 1883) 1885. p.217-21.
- Currant spanworm. Felt. Currant Spanworm. Mus. bul. 37. 1900. p.13-14. *Same*, Mus. rep. 54 (for 1900) 1902. 3:13-14.

Currant spanworm (*continued*)

Lintner. Gooseberry Spanworm. Ent. rep. 12 (for 1896) 1897. p.310-11.
Same, Mus. rep. 50 (for 1896) 1898. 1:310-11 (1st paging).

Cut worms. Lintner. Cut-worms. Mus. bul. 6. 1888. 36p. illus.

Lintner. Variegated Cutworm. Ent. rep. 5 (for 1888) 1889. p.200-6.
Same, Mus. rep. 42 (for 1888) 1889. p.200-6.

Cyanite. Beck. Kyanite. Min. N. Y. 1842. p.365.

Whitlock. Cyanite. Mus. bul. 58. 1902. p.104.

Cystoidea, *see* Echinoderma.**Damourite.** Merrill. Damourite. Mus. bul. 19. 1898. p.122. *Same*, Mus. rep. 51 (for 1897) 1899. 1:122.**Danburite.** Beck. Danburite. Min. N. Y. 1842. p.450.**Dannemora formation.** Cushing. Dannemora Formation. Geol. rep. 19 (for 1899) 1901. p.r47-51. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r47-51.

— — — Geol. rep. 20 (for 1900) 1902. p.r82. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r82.

Datolite. Beck. Datolite. Min. N. Y. 1842. p.246-47.

Whitlock. Datolite. Mus. bul. 58. 1902. p.104.

Decorative tile. Ries. Decorative Tile. Mus. bul. 35. 1900. p.777-80.

Same, Mus. rep. 54 (for 1900) 1902. 2:777-80.

Delaware county. Beck. Mineralogy. Min. rep. (for 1839) 1840. p.61.

Dickinson. Bluestone Quarries. Mus. bul. 61. *In press*.

Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.554. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:554.

— — — Ent. rep. 16 (for 1900) 1901. p.1004. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1004.

Eastman. Upper Devonian Fish-fauna of Delaware County, New York. Geol. rep. 17 (for 1897) 1899. p.317-27. illus. *Same*, Mus. rep. 51 (for 1897) 1899. 2:317-27. illus.

Fisher. Geologic Map. 34x32.5cm. Geol. rep. 17 (for 1897) 1899. facing p.104. *Same*, Mus. rep. 51 (for 1897) 1899. v.2, facing p.104.

Mather. Economical Geology. Geol. rep. 1st dist. (for 1839) 1840. p.213-58.

Mather. Dip and Strike of Rocks. Geol. N. Y. pt1. 1843. p.621.

Merrill. Hudson River Bluestone Quarrymen. Mus. bul. 15. 1895. p.458-61. *Same*, Mus. rep. 48 (for 1894) 1895. 1:458-61 (2d paging).

Prosser. Chemung Formation. Geol. rep. 17 (for 1897) 1899. p.105-41. *Same*, Mus. rep. 51 (for 1897) 1899. 2:105-41.

Delta terraces. Lincoln. Delta Terraces of Seneca County. Geol. rep. 14 (for 1894) 1895. p.74-77. *Same*, Mus. rep. 48 (for 1894) 1895. 2:74-77.**Delthyris shaly limestone (New Scotland; Catskill shaly).** Emmons. Delthyris Shaly Limestone. Ag. N. Y. 1846. 1:167-68.

Hall. Delthyris Shaly Limestone. Geol. N. Y. pt4. 1843. p.144-45.

Hall. Fossils. Geol. N. Y. pt4. 1843. p.144-45.

Mather. Delthyris Shaly Limestone, or Catskill Shaly Limestone. Geol. N. Y. pt1. 1843. p.343-45.

Mather. Fossils. Geol. N. Y. pt1. 1843. p.345.

^aVanuxem. Delthyris Shaly Limestone. Geol. rep. 3d dist. (for 1839) 1840. p.377.

See also Catskill shaly limestone; New Scotland limestone.

De Rham collection. Catalogues. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.37-48; 4 (for 1850) 1851. p.28-41; 27 (for 1873) 1875. p.41-42.

- Devonian.** Clarke. The Hercynian Question. Geol. rep. 8 (for 1888) 1889. p.62-91. *Same*, Mus. rep. 42 (for 1888) 1889. p.408-37.
- Clarke. Devonian Age of the Helderbergian Fauna and the Base of the Devonian System in New York. Mus. mem. 3. 1900. p.82-98. *Same*, Mus. rep. 53 (for 1899) 1901. 2:82-98.
- Clarke. Value of Amnigenia as an Indicator of Freshwater Deposits during the Devonian of New York, Ireland and the Rhineland. Mus. bul. 49. 1901. p.199-203. pl.11.
- Clarke. Indigene and Alien Faunas of the New York Devonian. Mus. bul. 52. 1902. p.664-72.
- Clarke & Schuchert. Devonian. *See* New York series.
- Conrad. Old Red Sandstone or Devonian System. Pal. rep. (for 1840) 1841. p.41-42.
- Emmons. The Upper Rocks of New York Equivalent to the Devonian System of England and the Continent. Ag. N. Y. 1846. 1:198-99.
- Hall. Line of Demarcation between Silurian and Devonian. Pal. N. Y. 1859. 3:42.
- Hall. Flora of the Devonian Period. Mus. rep. 16 (for 1862) 1863. p.92-117. illus. 4pl.
- Hall & Whitfield. Descriptions of New Species of Fossils from the Devonian Rocks of Iowa. Mus. rep. 23 (for 1869) 1873. p.223-39. pl.9-12.
- Hall & Whitfield. Notice of Three New Species of Fossil Shells from the Devonian of Ohio. Mus. rep. 23 (for 1869) 1873. p.240-41.
- Hall. Illustrations of Devonian Fossils. 1876.
- Merrill. Devonian System. Mus. bul. 19. 1898. p.158-65. *Same*, Mus. rep. 51 (for 1897) 1899. 1:158-65.
- Merrill. Life of the Devonian. Mus. bul. 19. 1898. p.165. *Same*, Mus. rep. 51 (for 1897) 1899. 1:165.
- Prosser. The Devonian Section of Central New York along the Unadilla River. Geol. rep. 12 (for 1892) 1893. p.110-42. *Same*, Mus. rep. 46 (for 1892) 1893. p.256-88.
- See also* New York series; Old red sandstone; *also* names of subdivisions; *also* names of classes of fossils, i. e. Brachiopoda, Corals, Crustacea, etc.
- Devonian shales,** *see* Shales.
- Devonic.** Clarke & Schuchert. Devonian. *See* New York series.
- Diabase,** *see* Trap.
- Diamond.** Whitlock. Diamond. Mus. bul. 58. 1902. p.47.
- Diatomaceous earth,** *see* Infusorial earth.
- Dictyospongidae,** *see* Spongiae.
- Dikes.** Cushing. Dike Rocks of Clinton County. Geol. rep. 15 (for 1895) 1897. p.515-73. *Same*, Mus. rep. 49 (for 1895) 1898. 2:515-73.
- Geol. rep. 19 (for 1899) 1900. p.r61. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r61.
- Cushing. Pre-Cambrian Dikes of Adirondacks. Geol. rep. 16 (for 1896) 1899. p.12-13. *Same*, Mus. rep. 50 (for 1896) 1899. 2:12-13.
- Cushing. Dikes of Franklin County. Geol. rep. 18 (for 1898) 1899. p.117-22. *Same*, Mus. rep. 52 (for 1898) 1900. 2:117-22.
- Geol. rep. 20 (for 1900) 1902. p.r23-82. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r23-82 (various page references).
- Cushing. Diabase Dikes at Little Falls. Geol. rep. 20 (for 1900) 1902. p.r93. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r93.
- Emmons. Phenomena of Dykes. Geol. rep. 2d dist. (for 1837) 1838. p.225-26.
- Emmons. Direction of Dykes, Veins, etc. Geol. rep. 2d dist. (for 1838) 1839. p.238.

Dikes (*continued*)

Kemp. Dikes of Essex County. Geol. rep. 13 (for 1893) 1894. p.446-72.
Same, Mus. rep. 47 (for 1893) 1894. p.640-66.

— — — Mus. bul. 14. 1895. p.339. *Same*, Mus. rep. 48 (for 1894) 1895.
 1:339 (2d paging).

— — — Geol. rep. 15 (for 1895) 1897. p.580-608. *Same*, Mus. rep. 49
 (for 1895) 1898. 2:580-608.

Kemp. Trap Dikes of Lake Placid Region. Mus. bul. 21. 1898. p.58-59, 61.
Same, Mus. rep. 52 (for 1898) 1900. 1:58-59, 61.

Kemp & Newland. Dikes of Adirondacks. Geol. rep. 17 (for 1897) 1899.
 p.511-52. *Same*, Mus. rep. 51 (for 1897) 1899. 2:511-52.

Ries. Dike Rocks of Orange County. Geol. rep. 15 (for 1895) 1897.
 p.457-62. *Same*, Mus. rep. 49 (for 1895) 1898. 2:457-62.

Smyth. Dikes in the Vicinity of the St Lawrence River. Geol. rep. 19
 (for 1899) 1901. p.89-98. *Same*, Mus. rep. 53 (for 1899) 1901. 1:89-98.

See also Trap.

Diluvium, *see* Drift.

Diopsid. Beck. Diopside. Min. N. Y. 1842. p.286, 294.

Merrill. Diopside. Mus. bul. 19. 1898. p.121. *Same*, Mus. rep. 51 (for
 1897) 1899. 1:121.

Whitlock. Diopsid. Mus. bul. 58. 1902. p.92.

See also Pyroxene.

Diorites, *see* Crystalline rocks; Harrison diorite.

Diptera. Additions to Collection. Ent. rep. 4, p.206-7; 5, p.325; 6, p.188;
 7, p.382; 8, p.297; 9, p.462; 10, p.510, 516; 11, p.285; 12, p.361; 13, p.372;
 14, p.257; 15, p.606-7; 16, p.1038; 17, p.814; 18, p.171.
 For dates of reports, *see* List of publications, p.264.

Felt. Species Treated. Ent. rep. 14 (for 1898) 1898. p.160-63 (Mus. bul.
 23). *Same*, Mus. rep. 52 (for 1898) 1900. 1:160-63.

— — — Ent. rep. 17 (for 1901) 1902. p.705-30 (Mus. bul. 53)

— — — Ent. rep. 18 (for 1902) p.99-103. *In press*.

— — — Forest, Fish and Game Com. rep. 6 (for 1900) 1901. p.529-31.

Johannsen. Aquatic Nematoceros Diptera. Mus. bul. 68. *In press*.

Lintner. Species Treated. Ent. rep. 1 (for 1881) 1882. p.168-227.

— — — Ent. rep. 2 (for 1882 and 1883) 1885. p.110-25, 241-43.

— — — Ent. rep. 4 (for 1887) 1888. p.60-80. *Same*, Mus. rep. 41 (for
 1887) 1888. p.180-200.

— — — Ent. rep. 5 (for 1888) 1889. p.220-27. *Same*, Mus. rep. 42 (for
 1888) 1889. p.220-27.

— — — Ent. rep. 6 (for 1889) 1890. p.111-17. *Same*, Mus. rep. 43 (for
 1889) 1890. p.111-17.

— — — Ent. rep. 7 (for 1890) 1891. p.228-46, 307-10. *Same*, Mus. rep.
 44 (for 1890) 1892. p.228-46, 307-10.

— — — Ent. rep. 8 (for 1891) 1893. p.140-51. *Same*, Mus. rep. 45 (for
 1891) 1892. p.140-51.

— — — Ent. rep. 9 (for 1892) 1893. p.309-14. *Same*, Mus. rep. 46 (for
 1892) 1893. p.309-14.

— — — Ent. rep. 10 (for 1894) 1895. p.386-405. *Same*, Mus. rep. 48 (for
 1894) 1895. 1:386-405 (1st paging).

— — — Ent. rep. 11 (for 1895) 1896. p.162-72. *Same*, Mus. rep. 49 (for
 1895) 1897. 1:162-72.

— — — Ent. rep. 12 (for 1896) 1897. p.223-34. *Same*, Mus. rep. 50 (for
 1896) 1898. 1:223-34 (1st paging).

Needham. Order Diptera. Mus. bul. 47. 1901. p.573-82. *Same*, Mus. rep.
 54 (for 1900) 1902. 4:573-82.

Diptera (*continued*)

Needham. Some New York Life Histories of Diptera. Mus. bul. 68. *In press.*

Species

The following list of species includes only the more important accounts by Fitch, in Ag. Soc. Trans. 21; by Lintner in Ent. rep. 1-13; by Felt in Ent. rep. 12, 14-18, Ag. Soc. Trans. 59, Forest, Fish and Game Com. reports; by Needham in Mus. bul. 47. For dates of reports and bulletins, see p.264.

Cecidomyia destructor. Ag. Soc. Trans. 21. p.819-30 (rep. 7, *sep. ed.* p.133-44).

— Ent. rep. 17, p.705-30 (Mus. bul. 53)

Culicidae. Mus. bul. 68. *In press.*

Diplosis pini-rigidae. Forest, Fish and Game Com. rep. 7. *In press.*

Diplosis pyrivora. Ent. rep. 8, p.140-51. *Same*, Mus. rep. 45, p.140-51.

Phora agarici. Ent. rep. 10, p.399-406. *Same*, Mus. rep. 48, 1:399-406 (1st paging).

Phytomyza chrysanthemi. Ent. rep. 4, p.73-80. *Same*, Mus. rep. 41, p.193-200.

— Ent. rep. 7, p.242-46. *Same*, Mus. rep. 44, p.242-46.

Piophilha casei. Ent. rep. 12, p.229-34. *Same*, Mus. rep. 50, 1:229-34 (1st paging).

— Ag. Soc. Trans. 59, p.300-1.

Psila rosae. Ent. rep. 18 (for 1902). p.99-103. *In press.*

Roederiodes juncta. Mus. bul. 47, p.581-82, 586. *Same*, Mus. rep. 54, 4:581-82, 586.

Sciara. Ent. rep. 12, p.223-29. *Same*, Mus. rep. 50, 1:223-29.

Sciara coprophila. Ent. rep. 10, p.391-97. *Same*, Mus. rep. 48, 1:391-97 (1st paging).

Sepedon fuscipennis. Mus. bul. 47, p.577-80. *Same*, Mus. rep. 54, 4:577-80.

Simuliidae. Mus. bul. 68. *In press.*

Stratiomyia badius. Mus. bul. 47, p.576-77. *Same*, Mus. rep. 54, 4:576-77.

Tetanocera pictipes. Mus. bul. 47, p.580-81. *Same*, Mus. rep. 54, 4:580-81.

Tipula abdominalis. Mus. bul. 47, p.575-76. *Same*, Mus. rep. 54, 4:575-76.

Zabrachia polita. Mus. bul. 47, p.585. *Same*, Mus. rep. 54, 4:585.

Dipyre. Nason. Dipyre. Mus. bul. 4. 1888. p.9-10.

Dolomite. Beck. Magnesian Carbonate of Lime. Min. N. Y. 1842. p.252-56. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.126.

Hunt. Dolomite. Mus. rep. 21 (for 1867) 1871. p.71-72.

Merrill. Dolomite. Mus. bul. 19. 1898. p.120. *Same*, Mus. rep. 51 (for 1897) 1899. 1:120.

Ries. Dolomites. Mus. bul. 44. 1901. p.644-45. *Same*, Mus. rep. 54 (for 1900) 1902. 3:644-45.

Whitlock. Dolomite. Mus. bul. 58. 1902. p.81.

See also Guelph formation.

Dragon flies, *see* Neuropteroid insects.

Drain tile. Bishop. Tile Manufacture of Erie County. Geol. rep. 15 (for 1895) 1897. p.342-45. *Same*, Mus. rep. 49 (for 1895) 1898. 2:342-45.

Merrill. Directory of Manufacturers. Mus. bul. 15. 1895. p.502-18. *Same*, Mus. rep. 48 (for 1894) 1895. 1:502-18 (2d paging).

Nason. Tile Manufacturers and Products, Albany County. Geol. rep. 13 (for 1893) 1894. p.234. *Same*, Mus. rep. 47 (for 1893) 1894. p.478.

Ries. Drain Tile. Mus. bul. 12. 1895. p.221-23. *Same*, Mus. rep. 48 (for 1894) 1895. 1:221-23 (2d paging).

Drain tile (*continued*)

- — — *revised*. Mus. bul. 35. 1900. p.770-72. *Same*, Mus. rep. 54 (for 1900) 1902. 2:770-72.
- Ries. Directory of Manufacturers. Mus. bul. 35. 1900. p.913-25. *Same*, Mus. rep. 54 (for 1900) 1902. 2:913-25.
- Drift.** Carr. Erratic Blocks. Geol. rep. 3d dist. (for 1839) 1840. p.388.
- Delafield. Drift Deposits of Seneca County. Ag. Soc. Trans. 10 (for 1850) 1851. p.475-79.
- Emmons. Drift, Boulders, etc. Geol. N. Y. pt2. 1842. p.422-27.
- Emmons. Drift, Superficial Covering of Clinton County. Geol. N. Y. pt2. 1842. p.323-24.
- Emmons. Superficial Deposits, Drift, Peat, etc. of Essex County. Geol. N. Y. pt2. 1842. p.284-85.
- Emmons. Drift and Surface Materials of Franklin County. Geol. N. Y. pt2. 1842. p.333.
- Emmons. Distribution of Drift and Boulders of Jefferson County. Geol. N. Y. pt2. 1842. p.410-13.
- Emmons. Superficial Covering, Drift or Boulder System of St Lawrence. Geol. N. Y. pt2. 1842. p.364-65.
- Emmons. Superficial Deposits in Warren County. Geol. N. Y. pt2. 1842. p.186-88.
- Emmons. Diluvial Action. Ag. N. Y. 1846. 1:207-18.
- Fitch. Boulders of Washington County. Ag. Soc. Trans. 9 (for 1849) 1850. p.883-90.
- Gale. Boulders of New York County. Geol. rep. 1st dist. (for 1838) 1839. p.190.
- Hall. Diluvium and Diluvial Action. Geol. rep. 4th dist. (for 1837) 1838. p.307-10.
- Hall. Boulders. Geol. rep. 4th dist. (for 1838) 1839. p.332.
- Hall. Boulders; Erratic Blocks of Monroe County. Geol. rep. 4th dist. (for 1837) 1838. p.331. Geol. N. Y. pt4. 1843. p.424.
- Hall. Boulders of Niagara County. Geol. rep. 4th dist. (for 1837) 1838. p.362. Geol. N. Y. pt4. 1843. p.443.
- Hall. Boulders of Orleans County. Geol. rep. 4th dist. (for 1837) 1838. p. 354. Geol. N. Y. pt 4. 1843. p.437.
- Hall. Boulders of Wayne County. Geol. rep. 4th dist. (for 1837) 1838. p.319. Geol. N. Y. pt4. 1843. p.416.
- Hall. Superficial Detritus. Geol. N. Y. pt4. 1843. p.318-31, 342-47.
- Hall. Position and Mode of Transport of the Great Northern Boulders. Geol. N. Y. pt4. 1843. p.332-41.
- Horton. Erratic Blocks; Boulders, of Orange County. Geol. rep. 1st dist. (for 1838) 1839. p.159-61.
- Lincklaen. Drift. Mus. rep. 14 (for 1860) 1861. p.79-81.
- Mather. Erratic Blocks of Suffolk County. Geol. rep. 1st dist. (for 1836) 1837. p.87-89 (ed. 2, p.89-91).
- Mather. Erratic Blocks of Queens, Kings and Richmond Counties. Geol. rep. 1st dist. (for 1837) 1838. p.133-36.
- Mather. Terrains de transport. Geol. rep. 1st dist. (for 1838) 1839. p.76; (for 1839) 1840. p.226-27.
- Mather. Sand, Clay and Drift. Geol. rep. 1st dist. (for 1840) 1841. p.71-75.
- Mather. Boulders and Erratic Blocks. Geol. N. Y. pt1. 1843. p.163-97.
- Mather. Theories of Erratic Blocks, Boulders, Scratches, etc. Geol. N. Y. pt1. 1843. p.214-21.

Drift (*continued*)

Smock. Building Stones. Mus. bul. 3. 1888. p.22-23; 10. 1890. p.226-27.

— — *revised* by Merrill. Mus. bul. 15. 1895. p.420. *Same*, Mus. rep. 48 (for 1894) 1895. 1:420 (2d paging).

— — *revised* by Merrill. Mus. bul. 19. 1898. p.203-4. *Same*, Mus. rep. 51 (for 1897) 1899. 1:203-4.

Vanuxem. Boulders. Geol. N. Y. pt3. 1842. p.220-24.

See also Alluvial deposits; Pleistocene.

Drift division. Mather. Drift Division. Geol. N. Y. pt1. 1843. p.158-228, 636-37.

Drumlins. Lincoln. Drumlin Belt of Seneca County. Geol. rep. 14 (for 1894) 1895. p.69-71. *Same*, Mus. rep. 48 (for 1894) 1895. 2:69-71.

Dudley rocks. Conrad. Dudley Rocks of Murchison. Pal. rep. (for 1837) 1838. p.111.

See also Esopus grit; Helderbergian; Onondaga salt group; Schoharie grit.

Dutchess county. Beck. Mineralogy. Min. rep. (for 1839) 1840. p.61-63.

Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.554-55 (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:554-55.

— — Ent. rep. 16 (for 1900) 1901. p.1004-5 (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1004-5.

— — Ent. rep. 17 (for 1901) 1902. p.777-79 (Mus. bul. 53).

— — Ent. rep. 18 (for 1902). p.145-46. *In press*.

Mather. Economic Geology. Geol. rep. 1st dist. (for 1837) 1838. p.142-84.

Mather. Hudson River Group. Geol. N. Y. pt1. 1843. p.385-89.

Mather. Taconic Rocks. Geol. N. Y. pt1. 1843. p.433-36.

Mather. Metamorphic Rocks. Geol. N. Y. pt1. 1843. p.442-46.

Mather. Steatite in. Geol. N. Y. pt1. 1843. p.487.

Mather. Limonites and Hematite. Geol. N. Y. pt1. 1843. p.491-98.

Mather. Primary Rocks. Geol. N. Y. pt1. 1843. p.525-34.

Mather. Dip and Strike of Rocks. Geol. N. Y. pt.1. 1843. p.611-12.

Ries. Brick Yards. Mus. bul. 12. 1895. p.182-84, 187, 244. *Same*, Mus. rep. 48 (for 1894) 1895. 1:182-84, 187, 244 (2d paging).

— — Mus. bul. 35. 1900. p.696-98, 701-2. *Same*, Mus. rep. 54 (for 1900) 1902. 2:696-98, 701-2.

Ries. Limestones. Geol. rep. 17 (for 1897) 1899. p.433-34. *Same*, Mus. rep. 51 (for 1897) 1899. 2:433-34.

— — *revised*. Mus. bul. 44. 1901. p.777-79. *Same*, Mus. rep. 54 (for 1900) 1902. 3:777-79.

Smock. Geological Reconnaissance in the Crystalline Rock Region: Dutchess, Putnam and Westchester Counties, N. Y. Mus. rep. 39 (for 1885) 1886. p.165-85, map.

Map of Archaean areas of Highlands (uncolored) 11x8.5cm.

Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.52, 95; 10. 1890. p.238, 259.

— — *revised* by Merrill. Mus. bul. 15. 1895. p.394, 433. *Same*, Mus. rep. 48 (for 1894) 1895. 1:394, 433 (2d paging).

Smock. Limonites. Mus. bul. 7. 1889. p.12-13, 52-61.

— — *revised* by Merrill. Mus. bul. 15. 1895. p.539-41. *Same*, Mus. rep. 48 (for 1894) 1895. 1:539-41 (2d paging).

— — *revised* by Merrill. Mus. bul. 19. 1898. p.220-21. *Same*, Mus. rep. 51 (for 1897) 1899. 1:220-21.

See also Highlands of Hudson.

- Earthenware.** Beauchamp. Earthenware of the New York Aborigines. Mus. bul. 22. 1898. p.71-146, 33pl. (phot.) *Same*, Mus. rep. 52 (for 1898) 1900. 1:71-146. 33pl. (phot.)
See also Pottery.
- Echinoderma (paleozoic).** Clarke. Paropsonema cryptophya, a Peculiar Echinoderm from the Intumescens-zone (Portage beds) of Western New York. Mus. bul. 39. 1900. p.172-78. pl.5-9. *Same*, Mus. rep. 54 (for 1900) 1902. 3:172-78. pl. 5-9.
- Clarke. Oriskany Species of Becraft Mountain. Mus. mem. 3. 1900. p.62. *Same*, Mus. rep. 53 (for 1899) 1901. 2:62.
- Clarke. New Agelacrinites. Mus. bul. 49. 1901. p.182-98. pl.10.
- Clarke. Type specimens in New York State Museum. Mus. bul. 65. *In press*.
- Crinoidea from the Tentaculite Limestone, arranged in table cases. Mus. rep. 35 (for 1881) 1884. p.67.
- Grabau. Crinoidea of Hamilton Group. Geol. rep. 16 (for 1896) 1899. p.285. *Same*, Mus. rep. 50 (for 1896) 1899. 2:285.
- Grabau. Cystoidea of Niagara Region. Mus. bul. 45. 1901. p.148-52. *Same*, Mus. rep. 54 (for 1900) 1902. 4:148-52.
- Grabau. Crinoidea of Niagara Region. Mus. bul. 45. 1901. p.152-60. *Same*, Mus. rep. 54 (for 1900) 1902. 4:152-60.
- Hall. Crinoidea of Lower Silurian. Pal. N. Y. 1847. v.1 (various page references, *see* Table, p.323).
- Hall. Crinoidea of Clinton Group. Pal. N. Y. 1852. 2:52, 179-84.
- Hall. Asteriadae. Pal. N. Y. 1852. 2:247-48.
- Hall. Crinoidea of Middle Silurian Period. Pal. N. Y. 1852. 2:177-232.
- Hall. Crinoidea of Niagara Group. Pal. N. Y. 1852. 2:185-232.
- Hall. Cystideae. Pal. N. Y. 1852. 2:233-46.
- Hall. Crinoideae and Cystideae of the Lower Helderberg Limestones and Oriskany Sandstone. Pal. N. Y. 1859. 3:99-152.
- Hall. A New Genus of Crinoidea, Cheirocrinus. Mus. rep. 13 (for 1859) 1860. p.121-24.
- Hall. Preliminary Notice of Some of the Species of Crinoidea known in the Upper Helderberg and Hamilton Groups of New York. Mus. rep. 15 (for 1861) 1862. p.115-53.
- Hall. Preliminary Notice of Some Species of Crinoidea from the Waverly Sandstone Series of Summit County, Ohio, supposed to be of the Age of the Chemung Group of New York. Mus. rep. 17 (for 1863) 1864. p.50-60.
 Published in advance in 1863.
- Hall. Note on the Genus Palaeaster and Other Fossil Star-fishes. Mus. rep. 20 (for 1866) 1867. p.282-303. pl.9.
- Hall. Echinodermata of Niagara Group. Mus. rep. 20 (for 1866) 1867. p.308-29.
- Hall. Description of New Species of Crinoidea and Other Fossils from Strata of the Age of the Hudson-river Group and Trenton Limestone. Mus. rep. 24 (for 1870) 1872. p.205-24. pl.5-7.
- Hall. Crinoidea of Niagara Group in Central Indiana. Mus. rep. 28 (for 1874) 1879. p.127-47.
- Hall. Some Remarkable Crinoidal Forms from the Lower Helderberg Group. Mus. rep. 28 (for 1874) 1879. p.205-10. pl.35-37.
- Kellogg Collection of Crinoidea. Mus. rep. 21 (for 1867) 1871. p.9, 13.
- Economic entomology, see** Entomology.

- Economic geology.** Additions to collection. Mus. rep. 12, p.108; 18, p.11-12; 19, p.39-41; 20, p.16-18, 61-63; 21, p.17-19; 22, p.10-12; 23, p.19-20; 24, p.21-24; 25, p.19-21; 26, p.19-20; 27, p.30-33; 28, p.23-25; 29, p.22-23; 30, p.15-17; 34, p.16-19; 36, p.18-19; 37, p.28; 38, p.17-18; 39, p.16-19; 40, p.23-26; 42, p.52-62; 43, p.14-15, 31-34; 44, p.24-26; 45, p.27-28; 49, 1:10; 50, 1:17-18, 20; 51, 1:r13-17; 52, 1:r22-23; 53, 1:r163-64.
For dates of Mus. rep., see List of publications, p.241.
- Merrill. Economic Geology.** University handbook 17. *In preparation.*
See also Building stones; Calcareous tufa; Clays; Coal; Drift; Iron ores; Limestones; Limonite; Marl; Mineral springs; Molding sand; Natural gas; Peat; Petroleum; Salt; Talc; also names of counties.
- Economic map.** Hall. Recommendations on Preparation of Geologic Map. Geol. rep. 14 (for 1894) 1895. p.9-11. *Same*, Mus. rep. 48 (for 1894) 1895. 2:9-11.
- Merrill. Economic and Geologic Map of the State of New York. 59x67cm. Mus. bul. 15. 1895. description, p.365-71. *Same*, Mus. rep. 48 (for 1894) 1895. v.1. description, p.365-71 (2d paging).
Scale 14 miles to 1 inch. New edition in preparation.
- Economic materials.** Emmons. Economic Materials existing in the Form of Rocks; in the Form of Simple Minerals. Geol. N. Y. pt2. 1842. p.418-21.
- Eighteen-mile creek.** Grabau. Faunas of the Hamilton Group of Eighteen-mile Creek and Vicinity. Geol. rep. 16 (for 1896) 1899. p.227-339. pl. (phot.) 3 tab. map. *Same*, Mus. rep. 50 (for 1896) 1899. 2:227-339. pl. (phot.) 3 tab. map.
Map of township of Hamburg, Erie co., (uncolored) 18x24.5cm.
- Elephant**, see Mastodon.
- Elk.** Hall. Note on the Discovery of a Skeleton of an Elk (*Elaphus canadensis*) in the Town of Farmington, Ontario Co. Geol. rep. 6 (for 1886) 1887. p.39.
- Elm bark borer.** Felt. Elm Bark Borer. Ag. Soc. Trans. 59 (for 1899) 1900. p.278-79.
——— Forest, Fish and Game Com. rep. 5 (for 1899) 1900. p.371-75.
Lintner. Elm Bark-borer. Ent. rep. 12 (for 1896) 1897. p.243-48. *Same*, Mus. rep. 50 (for 1896) 1898. 1:243-48 (1st paging).
- Elm bark louse.** Felt. Elm Tree Bark Louse. Mus. bul. 20. 1898. p.16-18. *Same*, Mus. rep. 52 (for 1898) 1900. 1:16-18.
——— Mus. bul. 27, 1899. p.46. *Same*, Mus. rep. 53 (for 1899) 1901. 1:46.
——— Forest, Fish and Game Com. rep. 5 (for 1899) 1900. p.375-79.
Lintner. Elm Bark Louse. Ent. rep. 12 (for 1896) 1897. p.292-98. *Same*, Mus. rep. 50 (for 1896) 1898. 1:243-48 (1st paging).
- Elm caterpillar.** Felt. Spiny Elm Caterpillar. Forest, Fish and Game Com. rep. 5 (for 1899) 1900. p.368-71.
- Elm leaf beetle.** Felt. Elm Leaf Beetle. Mus. bul. 20, 1898. p.1-43. *Same*, Mus. rep. 52 (for 1898) 1900. 1:1-43.
——— *revised*. Mus. bul. 57. 1902. p.1-43.
——— Ent. rep. 14 (for 1898) 1898. p.232-35. (Mus. bul. 23). *Same*, Mus. rep. 52 (for 1898) 1900. 1:232-35.
——— Ag. Soc. Trans. 59 (for 1899) 1900. p. 279.
——— Forest, Fish and Game Com. rep. 5 (for 1899) 1900. p.354-59.
Lintner. Elm Leaf Beetle. Ent. rep. 5 (for 1888) 1889. p.234-42. *Same*, Mus. rep. 42 (for 1888) 1889. p.234-42.
——— Ent. rep. 11 (for 1895) 1896. p.189-96. *Same*, Mus. rep. 49 (for 1895) 1897. 1:189-96.
——— Ent. rep. 12 (for 1896) 1897. p.253-64. *Same*, Mus. rep. 50 (for 1896) 1898. 1:253-64 (1st paging).

- Elm snout beetle.** Felt. Elm Snout Beetle. Mus. bul. 37. 1900. p.22.
Same, Mus. rep. 54 (for 1900) 1902. 3:22.
 ——— Forest, Fish and Game Com. rep. 5 (for 1899) 1900. p.374.
- Elm trees,** *see* Shade trees.
- Elmira.** Smock. Stone Construction in. Mus. bul. 10. 1890. p.336.
- Emerald.** Beck. Emerald. Min. N. Y. 1842. p.374-75.
See also Beryl.
- Emery.** Merrill. Emery. Mus. bul. 15. 1895. p.555. *Same*, Mus. rep. 48 (for 1894) 1895. 1:555 (2d paging).
 ——— Mus. bul. 19. 1898. p.226. *Same*, Mus. rep. 51 (for 1897) 1899. 1:226.
- Nevius. Emery Mines of Westchester County. Geol. rep. 19 (for 1899) 1901. p.151-54. pl. (phot.) *Same*, Mus. rep. 53 (for 1899) 1901. 1:151-54. pl. (phot.)
- Whitlock. Corundum (emery). Mus. bul. 58. 1902. p.70-71.
- Enargite.** Whitlock. Enargite. Mus. bul. 58. 1902. p.63.
- Encrinal limestone (of Hamilton group).** Bishop. Encrinal Limestone of Erie County. Geol. rep. 15 (for 1895) 1897. p.317-20, 333. *Same*, Mus. rep. 49 (for 1895) 1898. 2:317-20, 333.
- Clarke. Encrinal Band of Ontario County. Geol. rep. 4 (for 1884) 1885. p.15-16.
- Grabau. Encrinal Limestone. Geol. rep. 16 (for 1896) 1899. p.235. *Same*, Mus. rep. 50 (for 1896) 1899. 2:235.
- Hall. Crinoidal Limestone. Geol. rep. 4th dist. (for 1839) 1840. p.389-90.
- Hall. Encrinal Limestone. Geol. N. Y. pt4. 1843. p.187.
- Hall. Encrinal Limestone of Erie County. Geol. rep. 4th dist. (for 1840) 1841. p.163. Geol. N. Y. pt4. 1843. p.472.
- Hall. Crinoidal Limestone of Genesee County. Geol. rep. 4th dist. (for 1839) 1840. p.430. Geol. N. Y. pt4. 1843. p.467.
- Hall. Encrinal Limestone of Ontario County. Geol. rep. 4th dist. (for 1838) 1839. p.313.
- ^aHall. Encrinal Limestone of Seneca County. Geol. rep. 4th dist. (for 1838) 1839. p.298.
- Luther. Encrinal Limestone in Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p.43-44. *Same*, Mus. rep. 47 (for 1893) 1894. p.237-38.
- Wright. Encrinal Limestone in Yates County. Mus. rep. 35 (for 1881) 1884. p.205-6.
See also Erie Division; Hamilton group.
- Encrinal limestone (Scutella).** Emmons. Encrinal Limestone. Ag. N. Y. 1846. 1:168.
 Hall. Encrinal Limestone. Geol. N. Y. pt4. 1843. p.145.
- Enstatite.** Whitlock. Enstatite. Mus. bul. 58. 1902. p.91.
- Entomologic collection of museum.** Additions. Mus. rep. 22, p.15; 23, p.21-23; 37, p.48-49; 38, p.73-75; 39, p.89-93; 40, p.140-42; 41, p.325-28; 42, p.324-26; 43, p.186-90; 44, p.381-84; 45, p.296-300; 46, p.461-64; 47, p.179; 48, 1:509-19; 49, 1:284-88; 50, 1:359-64; 51, 1:371-75; 52, 1:255-63; 53, 1:600-20.
 For references to Entomologist's reports, *see* under ordinal names of insects.
 For dates of Mus. *see* List of publication, p.241. For earlier additions, *see* Zoologic collection.
- Fitch. Catalogue of Insects Dec. 1, 1848. Mus. rep. 2 (for 1848) 1849. p.25-39.
- Fitch. Catalogue with References and Descriptions. Mus. rep. 4 (for 1850) 1851. p.43-69.
- On the Homoptera. Reprinted in Ent. rep. 9 and Mus. rep. 46, p.381-409.

Entomology. De Kay. Insects. Assembly doc. 1840, no.50, p.13-14.

Emmons. Insects Injurious to Agriculture. Ag. N. Y. 1854. v.5. 272p. 50pl.

Felt. List of Publications of. Ent. rep. 14, p.243-54; 15, p.588-600; 16, p.1027-33; 17, p.800-8; 18, p.161-69.

For dates and corresponding museum reports, see List of publications, p.264.

Felt. Hints about Insecticides. Ent. rep. 14 (for 1898) 1898. p.221-30 (Mus. bul. 23). *Same*, Mus. rep. 52 (for 1898) 1900. 1:221-30.

——— Mus. bul. 37. 1900. p.44-47. *Same*, Mus. rep. 54 (for 1900) 1902. 3:44-47.

Felt. Memorial of the Life and Entomological Work of J. A. Lintner Ph.D. State Entomologist 1874-98; Index to Entomologist's Reports 1-13. Mus. bul. 24. 1899. p.301-611. 1pl. (phot.) *Same*, Mus. rep. 52 (for 1898) 1900. 1:301-611. 1pl. (phot.)

Felt. Collection, Preservation and Distribution of New York Insects. Mus. bul. 26. 1899. 34p. illus. *Same*, Mus. rep. 53 (for 1899) 1901. 1:3-34. illus.

Felt. Descriptive Catalogue of Insects exhibited at New York State Fair, Syracuse, 4-9 Sep. 1899. 26p.

Felt. Reports as Entomologist. 14-18 (for 1898-1902).

Also published in Museum reports.

Report for 1898.	Mus. bul. 23.	<i>Same</i>	Mus. rep. 52, v.1.
" 1899.	" 31.	"	53, v.1.
" 1900.	" 36.	"	54, v.2.
" 1901.	" 53.		
" 1902.	" 64.		

Felt. Catalogue of Some of the More Important Injurious and Beneficial Insects of New York State. Mus. bul. 37. 1900. 52p. illus. *Same*, Mus. rep. 54 (for 1900) 1902. 3:1-52. illus.

Felt. Exhibition of Insects at Agricultural Gatherings and Catalog of Injurious Species. Ent. rep. 15 (for 1899) 1900. p.575-88. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:575-88.

——— Ag. Soc. Trans. 59 (for 1899) 1900. p.282-93.

Felt. Voluntary Reports on. Ent. rep. 15 (for 1899) 1900. p.549-75 (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:549-75.

——— Ent. rep. 16 (for 1900) 1901. p.1000-26. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1000-26.

——— Ent. rep. 17 (for 1901) 1902. p.776-800 (Mus. bul. 53).

——— Ent. rep. 18 (for 1902). p.144-52. *In press*.

Felt. Illustrated Catalog of Injurious and Beneficial Insects. Mus. bul. 37. 1900. p.3-52. *Same*, Mus. rep. 54 (for 1900) 1902. 3:3-52.

Felt. Injurious Insects and How to Control them. Ag. Soc. Trans. 59 (for 1899) 1900. p.267-82. illus. 4pl.

Felt. Household Insects. Ag. Soc. Trans. 59 (for 1899) 1900. p.294-303. illus. 2pl.

Felt. Insects as Food for Fish. Forest, Fish and Game Com. rep. 6 (for 1900) 1901. p.501-3.

Felt. Account and Catalogue of the Entomologic Exhibit at the Pan-American Exposition 1901. Ent. rep. 17 (for 1901) 1902. p.825-99 (Mus. bul. 53).

Felt. Entomology. University handbook 16. 1902. 12p.

Felt. Importance of Injurious Insects Introduced from Abroad. Ent. rep. 18 (for 1902). p.116-26. *In press*.

Felt. Insecticides and Fungicides. University handbook 18. 16p. *In press*.

Entomology (*continued*)

Fitch. Reports on the Noxious, Beneficial and Other Insects of the State of New York. 1855-72.

Published in New York State Ag. Soc. Trans. 14, p.705-880; 15, p.409-559; 16, p.315-490; 17, p.687-814; 18, p.781-854; 20, p.745-868; 21, p.813-59; 22, p.667-91; 23, p.778-823; 24, p.433-61; 26, p.487-543; 27, pt2, p.889-932; 29, p.495-566; 30, p.355-81.
Say's Heteropterous Hemiptera. 17, p.764-814.

Fitch. List of Entomological Reports of. Ent. rep. 1 (for 1881) 1882. p.291-322.

Lintner. Entomological Contributions. Mus. rep. 23-24, 26-27, 30 (for 1869-70, 1872-73, 1876) 1872-73, 1874-75, 1878.

For page references, *see* List of publications, p.246-47.

Lintner. Reports as Entomologist. 1-13 (for 1881-97).

Reports 1 and 2 were issued independently of the museum.

Reports 3-13 also published in museum reports.

For index to Reports 1-13, *see* Mus. bul. 24.

Lintner. The Insects and Other Animal Forms of Caledonia Creek, N. Y. Mus. rep. 32 (for 1878) 1879. p.75-99.

Lintner. Extent of Insect Depredations. Ent. rep. 1 (for 1881) 1882. p.2-12.

Lintner. Number and Habits of Insects. Ent. rep. 1 (for 1881) 1882. p.12-15.

Lintner. Economic Progress made in. Ent. rep. 1 (for 1881) 1882. p.15-25.

Lintner. Insecticides and Preventives of Insect Depredations. Ent. rep. 1 (for 1881) 1882. p.25-77.

— — — Ent. rep. 2 (for 1882 and 1883) 1885. p. 24-38.

— — — Ent. rep. 5 (for 1888) 1889. p.155-63. *Same*, Mus. rep. 42 (for 1888) 1889. p.155-63.

Lintner. List of Publications of. Ent. rep. 3, p.142-54; 4, p.193-204; 5, p.299-323; 6, p.165-85; 7, p.357-80; 8, p.278-95; 9, p.446-59; 10, p.484-508; 11, p.273-83; 12, p.347-57; 13, p.364-70.

See also Mus. bul. 24.

For dates and corresponding museum reports, *see* List of publications, p.264.

Lintner. Present State of Entomological Science in United States. Ent. rep. 4 (for 1887) 1888. p.163-72. *Same*, Mus. rep. 41 (for 1887) 1888. p.283-92.

Also published in Regents rep. 100 (for 1886) 1887. p.122-34.

Lintner. Annual Address of President of Entomological Club of A. A. A. S. Ent. rep. 4 (for 1887) 1888. p. 172-83. *Same*, Mus. rep. 41 (for 1887) 1888. p.292-303.

Lintner. Insects of the Past Year and Progress in Insect Studies. Alb. Inst. Trans. 1893. 12:227-40.

Lintner. Some Injurious Insects of Massachusetts. Ent. rep. 8 (for 1891) 1893. p.227-57. *Same*, Mus. rep. 45 (for 1891) 1892. p.227-57.

Lintner. Our Insect Enemies and How to Meet them. Ent. rep. 8 (for 1891) 1893. p.258-77. *Same*, Mus. rep. 45 (for 1891) 1892. p.258-77.

Lintner. Reports of Committee on Entomology. Ent. rep. 9 (for 1892) 1893. p.414-37. *Same*, Mus. rep. 46 (for 1892) 1893. p.414-37.
Committee of Western New York Horticultural Society.

Lintner. Plea for Entomological Study. Ent. rep. 12 (for 1896) 1897. p.336-45. *Same*, Mus. rep. 50 (for 1896) 1898. 1:336-45.

References to Various Essays and Writings on the Natural History of New York. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.158.

See also Aquatic insects; Forest trees; Fruit trees; Garden crops; Grains; Shade trees; *also* Coleoptera; Diptera; Hemiptera; Hymenoptera; Lepidoptera; Neuropteroid Insects; Orthoptera; *also common names of species.*

Ephemera, *see* Neuropteroid insects.

- Epidote.** Beck. Epidote. Min. N. Y. 1842. p.354-56. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.142.
 Hunt. Epidote. Mus. rep. 21 (for 1867) 1871. p.84.
 Whitlock. Epidote. Mus. bul. 58. 1902. p.104-5.
- Epistilbite.** Beck. Epistilbite. Min. N. Y. 1842. p.347-48.
- Epsom salt.** Beck. Epsom Salt. Min. N. Y. 1842. p.251-52.
 Mather. Sulphate of Magnesia, Muriate of Soda and Muriate of Lime. Geol. N. Y. pt1. 1843. p.86-88.
 Whitlock. Epsomite. Mus. bul. 58. 1902. p.127.
- Eremite.** Beck. Eremite. Min. N. Y. 1842. p.450.
- Erian.** Clarke & Schuchert. Erian. Mus. mem. 3. 1900. p.11. *Same*, Mus. rep. 53 (for 1899) 1901. 2:11.
- Erie county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.63-64.
 Bishop. Structural and Economic Geology. Geol. rep. 15 (for 1895) 1897. p.17-18, 305-92. pl. (phot.) maps. *Same*, Mus. rep. 49 (for 1895) 1898. 2:17-18, 305-92. pl. (phot.) maps.
 Economic and geologic map of Erie county (uncolored) 32x21cm.
 Maps showing natural gas field of Buffalo.
- Bishop. Natural Gas. Geol. rep. 15 (for 1895) 1897. p.346-89. *Same*, Mus. rep. 49 (for 1895) 1898. 2:346-89.
 ——— Geol. rep. 17 (for 1897) 1899. p.25-26. *Same*, Mus. rep. 51 (for 1897) 1899. 2:25-26.
 Bishop. Oil and Gas. Geol. rep. 19 (for 1899) 1901. p.r121-23. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r121-23.
- Clarke. Agoniatite Limestone. Mus. bul. 49. 1901. p.120-21.
- Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.555-58 (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:555-58.
 ——— Ent. rep. 16 (for 1900) 1901. p.1005-8. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1005-8.
 ——— Ent. rep. 17 (for 1901) 1902. p.779-81. (Mus. bul. 53)
 ——— Ent. rep. 18 (for 1902). p.146. *In press*.
- Hall, Erie County. Geol. rep. 4th dist. (for 1840) 1841. p.150-69. Geol. N. Y. pt4. 1843. p.469-75.
- Ries. Brick Yards. Mus. bul. 12. 1895. p.205-7, 248. *Same*, Mus. rep. 48 (for 1894) 1895. 1:205-7, 248 (2d paging).
 ——— Mus. bul. 35. 1900. p.722-24. *Same*, Mus. rep. 54 (for 1900) 1902. 2:722-24.
- Ries. Limestones. Geol. rep. 17 (for 1897) 1899. p.434-36. *Same*, Mus. rep. 51 (for 1897) 1899. 2:434-36.
 ——— *revised*. Mus. bul. 44. 1901. p.779-81. *Same*, Mus. rep. 54 (for 1900) 1902. 3:779-81.
- Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.131-33; 10. 1890. p.253-54.
 ——— *revised* by Merrill. Mus. bul. 15. 1895. p.446-47. *Same*, Mus. rep. 48 (for 1894) 1895. 1:446-47 (2d paging).
- Wood. Marcellus (Stafford) Limestones of Lancaster, Erie Co. N. Y. Mus. bul. 49. 1901. p.139-81. pl.9.
See also Eighteen-mile creek.
- Erie division.** Denniston. Erie Division in Orange County. Ag. Soc. Trans. 22 (for 1862) 1863. p.155.
 Emmons. Erie Group. Geol. N. Y. pt2. 1842. p.100, 429.
 Emmons. Erie Division. Ag. N. Y. 1846. 1:180-86.
 Hall. Erie Division. Geol. N. Y. pt4. 1843. p.18, 177-277.
 Mather. Erie Division. Geol. N. Y. pt1. 1843. p.317-23.
 Mather. Fossils. Geol. N. Y. pt1. 1843. p.320-23.

Erie division (*continued*)

*a*Vanuxem. Erie Division. Geol. N. Y. pt3. 1842. p.16, 146-85.

Vanuxem. Observations upon the Upper Part of the Erie Division. Geol. N. Y. pt3. 1842. p.170-72.

See also Erian.

Erie, Lake. Hall. Lake Erie. Geol. N. Y. pt4. 1843. p.407-13, 664.

Erratic blocks, *see* Drift.

Eruptive rocks, *see* Igneous rocks.

Erythrite. Whitlock. Erythrite. Mus. bul. 58. 1902. p.120-21.

Esopus grit (cauda galli). Clarke & Schuchert. Esopus Grit. Mus. mem. 3. 1900. p.12. *Same*, Mus. rep. 53 (for 1899) 1901. 2:12.

*a*Darton. Cauda-galli Grit; Esopus Slate. Geol. rep. 13 (for 1893) 1894. p.209-10. *Same*, Mus. rep. 47 (for 1893) 1894. p.403-4.

Darton. Cauda-galli Grit; Esopus Slates in Albany County. Geol. rep. 13 (for 1893) 1894. p.244-45. *Same*, Mus. rep. 47 (for 1893) 1894. p.438-39.

Darton. Cauda Galli Grit; Esopus Slate of Ulster County. Geol. rep. 13 (for 1893) 1894. p.302-3. *Same*, Mus. rep. 47 (for 1893) 1894. p.496-97.

Ries. Esopus Slate of Greene County. Mus. bul. 44. 1901. p.786. *Same*, Mus. rep. 54 (for 1900) 1902. 3:786.

Ries. Esopus Slate of Orange County. Geol. rep. 15 (for 1895) 1897. p.402-3. *Same*, Mus. rep. 49 (for 1895) 1898. 2:402-3.

See also Cauda galli grit.

Esopus millstones. Mather. Esopus Millstones. Geol. N. Y. pt1. 1843. p.357.

Essex, sandstone of. Emmons. Sandstone of Essex. Geol. rep. 2d dist. (for 1837) 1838. p.230.

See also Potsdam sandstone.

Essex county. Beck. Mineralogy. Min. rep. (for 1839) 1840. p.64-66; (for 1840) 1841. p.13-18.

Beck. Magnetic Oxide of Iron. Min. N. Y. 1842. p.14-17.

Emmons. Geology. Geol. rep. 2d dist. (for 1837) 1838. p.219-50; (for 1839) 1840. p.281-83. Geol. N. Y. pt2. 1842. p.194-288.

Emmons. Magnetic Ore. Geol. rep. 2d dist. (for 1839) 1840. p.319-21. Geol. N. Y. pt2. 1842. p.231-63.

Emmons. Ores of Newcomb (McIntyre). Geol. rep. 2d dist. (for 1839) 1840. p.273-311.

Emmons. Survey in the Interior of Hamilton, Essex and Franklin Counties. Geol. rep. 2d dist. (for 1840) 1841. p.113-33.

Emmons. Minerals. Geol. N. Y. pt2. 1842. p.285-87.

Finlay. Preliminary Report of Field Work in the Town of Minerva, Essex Co. Geol. rep. 20 (for 1900) 1902. p.96-102. *Same*, Mus. rep. 54 (for 1900) 1902. 1:96-102.

Geologic map of the town of Minerva, 21x19cm.

Ground Plan of Beds and Veins of Magnetic Oxide of Iron at Adirondack, Essex Co. Geol. N. Y. pt2. 1842. p.3-4.

Hall, C. E. Laurentian Magnetic Iron Ore Deposits of Northern New York. Mus. rep. 32 (for 1878) 1879. p.133-40. *Same*, Geol. rep. 4 (for 1884) 1885. p.23-34, with geol. map of Essex county 48x40.5cm.

Kemp. Preliminary Report on the Geology of. Geol. rep. 13 (for 1893) 1894. p.431-72, maps (uncolored). *Same*, Mus. rep. 47 (for 1893) 1894. p.625-66, maps (uncolored).

Contains a bibliography on geology and mineralogy of Adirondacks.

——— *continued.* Geol. rep. 15 (for 1895) 1897. p.22-23, 575-614. 1pl.

(phot.) maps. *Same*, Mus. rep. 49 (for 1895) 1898. 2:22-23, 575-614. 1pl.

(phot.) maps.

Map of Essex county, 20x19cm.

Essex county (*continued*)

- Kemp.** Geology of Moriah and Westport Townships, Essex County, N. Y. Mus. bul. 14. 1895. p.323-55. pl. (phot.) maps. *Same*, Mus. rep. 48 (for 1894) 1895. 1:323-55 (2d paging). pl. (phot.) maps.
Map of the Mineville district, Essex co. 30x33cm.
Geologic map of Moriah and Westport townships, Essex co. 38x44cm.
- Kemp & Newland.** Preliminary Report on the Geology of Washington, Warren and Parts of Essex and Hamilton Counties. Geol. rep. 17 (for 1897) 1899. p.499-553. pl. (phot.) maps (uncolored). *Same*, Mus. rep. 51 (for 1897) 1899. 2:499-553. pl. (phot.) maps (uncolored).
- Nason.** Newcomb Tourmalines. Mus. bul. 4. 1888. p.5-10.
- Nason.** Pyroxenes from the Mineral Locality at Chilson Hill, Ticonderoga, N. Y. Mus. bul. 4. 1888. p.12-16.
- Peck.** Plants of North Elba. Mus. bul. 28. 1899. p.65-266. map. *Same*, Mus. rep. 53 (for 1899) 1901. 1:65-266. map.
Map of North Elba, Essex co. (uncolored) 12x16cm.
- Ries.** Limestones. Geol. rep. 17 (for 1897) 1899. p.436-37. *Same*, Mus. rep. 51 (for 1897) 1899. 2:436-37.
— — — *revised*. Mus. bul. 44. 1901. p.781-83. *Same*, Mus. rep. 54 (for 1900) 1902. 3:781-83.
- Smock.** Building Stone Quarries. Mus. bul. 3. 1888. p.33-34, 44, 45-46, 102-3; 10. 1890. p.232-33, 238, 242-43, 256.
— — — *revised* by Merrill. Mus. bul. 15. 1895. p.378-79, 391-92, 432, 436. *Same*, Mus. rep. 48 (for 1894) 1895. 1:378-79, 391-92, 432, 436 (2d paging).
- Watson.** A General View and Agricultural Survey of the County of Essex. Ag. Soc. Trans. 12 (for 1852) 1853. p.649-898. illus.
— — — Supplement. Ag. Soc. Trans. 13 (for 1853) 1854. p.699-741.
See also Adirondacks.
- Ethnologic collection of museum.** Additions. Mus. rep. 53, 1:r165-66.
See also Historical and antiquarian collection; Indian collection.
- Euclase.** Beck. Euclase. Min. N. Y. 1842. p.451.
- Eupyrchroite.** Beck. Fibrous Phosphate of Lime. Min. rep. (for 1839) 1840. p.107-8. Min. N. Y. 1842. p.240.
Emmons. Eupyrchroite. Geol. rep. 2d dist. (for 1837) 1838. p.252; (for 1840) 1841. p.135.
- European fruit scale insect.** Felt. European Fruit Tree Scale Insect. Mus. bul. 46. 1901. p.323-26. *Same*, Mus. rep. 54 (for 1900) 1902. 4:323-26.
- Eurypteridea,** *see* Crustacea (paleozoic).
- Evolution.** Callaway. The Geological Evidence of the Origin of Species by Evolution. Alb. Inst. Trans. 1876. 8:207-14.
Williams. Paleontological Evidences as Bearing upon the Theory of Evolution. Regents rep. 95 (for 1881) 1882. p.319-27.
- Fairfield slate,** *see* Utica shale.
- Fall webworm.** Felt. Fall Webworm. Forest, Fish and Game Com. rep. 5 (for 1899) 1900. p.363-68.
- Faults.** Cushing. Faults of Adirondacks. Geol. rep. 16 (for 1896) 1899. p.14-15. *Same*, Mus. rep. 50 (for 1896) 1899. 2:14-15.
Cushing. Faults of Clinton County. Geol. rep. 19 (for 1899) 1901. p.r44, r71-73. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r44, r71-73.
- Darton.** Preliminary Description of the Faulted Region of Herkimer, Fulton, Montgomery and Saratoga Counties. Geol. rep. 14 (for 1894) 1895. p.33-53. *Same*, Mus. rep. 48 (for 1894) 1895. 2:33-53.
- Kümmel.** Faults in Rockland County. Geol. rep. 18 (for 1898) 1899. p.44-48. *Same*, Mus. rep. 52 (for 1898) 1900. 2:44-48.
See also Uplifts.

- Feldspar.** Beck. Feldspar. Min. rep. (for 1836) 1837. p.59 (ed. 2, p.61).
Min. N. Y. 1842. p.334-40. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.138.
- Emmons.** Porcelain Clay and Feldspar. Geol. rep. 2d dist. (for 1838) 1839. p.203-12.
- Emmons.** Felspar. Ag. N. Y. 1846. 1:39.
- Merrill.** Feldspars. Mus. bul. 19. 1898. p.121. *Same*, Mus. rep. 51 (for 1897) 1899. 1:121.
- Ries.** Feldspar. Mus. bul. 35. 1900. p.841-43. *Same*, Mus. rep. 54 (for 1900) 1902. 2:841-43.
- Whitlock.** Feldspars. Mus. bul. 58. 1902. p.87-90.
- Fenestellidae,** *see* Bryozoa (paleozoic).
- Ferrous slate and sandrock,** *see* Clinton group.
- Ferruginous tufa.** Vanuxem. Tufaceous Iron. Geol. rep. 3d dist. (for 1838) 1839. p.281-82.
- Vanuxem.** Ferruginous Tufa. Geol. N. Y. pt3. 1842. p.227-28.
- Fertilizers,** *see* Marl; Peat.
- Fibrolite,** *see* Sillimanite.
- Filling paper.** Ries. Filling Paper. Mus. bul. 35. 1900. p.852. *Same*,
Mus. rep. 54 (for 1900) 1902. 2:852.
- Finger lakes.** Watson. Some Higher Levels in the Post-glacial Development of the Finger Lakes of New York State. Mus. rep. 51 (for 1897) 1899. 1:r55-117. pl. (phot.) maps.
Maps showing extent of glacial lakes.
Contains a bibliography.
- See also* Cayuga lake; Seneca lake.
- Fire brick.** Merrill. Directory of Manufacturers. Mus. bul. 15. 1895. p.502-18. *Same*, Mus. rep. 48 (for 1894) 1895. 1:502-18 (2d paging).
- Ries.** Fire Brick. Mus. bul. 12. 1895. p.223-25. *Same*, Mus. rep. 48 (for 1894) 1895. 1:223-25 (2d paging).
- Ries.** Fire Clays and Fire Brick. Mus. bul. 35. 1900. p.781-90, 867-77. *Same*, Mus. rep. 54 (for 1900) 1902. 2:781-90, 867-77.
- Ries.** Directory of Manufacturers. Mus. bul. 35. 1900. p.913-25. *Same*, Mus. rep. 54 (for 1900) 1902. 2:913-25.
- Fireproofing.** Bishop. Fire-proofing Manufacture of Erie County. Geol. rep. 15 (for 1895) 1897. p.342-44. *Same*, Mus. rep. 49 (for 1895) 1898. 2:342-44.
- Firestones.** Hall. Firestones. Geol. rep. 4th dist. (for 1837) 1838. p.324, 344. Geol. N. Y. pt4. 1843. p.420, 432.
- Fishes.** Bean. Report on the Fishes of Long Island collected in the Summer of 1898. Mus. rep. 52 (for 1898) 1900. 1:r92-111.
- Bean.** Catalogue of the Fishes of New York. Mus. bul. 60. *In press*.
- Bean.** Report on the Fishes of the Great South Bay, Long Island, collected in the Summer of 1901. Mus. rep. 55 (for 1901) *In press*.
- Catalogues and Additions.** Mus. rep. 2, p.23; 3 *rev. ed.*, p.23-24, 42; 4, p.24-25; 5, p.20, 24-28; 6, p.23; 7, p.18-23; 8, p.20; 9, p.19-29; 13, p.14; 22, p.14; 24, p.19, 33-37, 39-40; 25, p.17; 46, p.22; 52, 1:r29-32.
For dates of Mus. rep., *see* List of publications, p.241.
- De Kay.** Fishes. Assembly doc. 1840, no.50, p.11-12, 27-31. Zool. N. Y. 1842. v.3. pt4. 415p. (v.3, pt4 text, v.4, 79pl.)
- De Kay.** Catalogue of the Fishes inhabiting the State of New York as classified and described in pt4 of the New York Fauna, with a list of the fishes inhabiting the State discovered since the publication of the Zoology. Mus. rep. 8 (for 1854) 1855. p.49-69; 9 (for 1855) 1856. p.30.
- DeRhami Collection.** Catalogue. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.42.
- Felt.** Insect Food of. Forest, Fish and Game Com. rep. 6 (for 1900) 1901. p.501-3.
- Needham.** Insect Food of Brook Trout. Mus. bul. 68. *In press*.

Fishes (*continued*)

- Scott, Notes on the Marine Food Fishes of Long Island and a Biological Reconnaissance of Cold Spring Harbor. Mus. rep. 54 (for 1900) 1902. p.r214-29.
- Fishes (fossil).** Clarke. Type Specimens in New York State Museum. Mus. bul. 65. *In press.*
- Eastman, Upper Devonian Fish-fauna of Delaware County, New York. Geol. rep. 17 (for 1897) 1899. p.317-27. illus. *Same*, Mus. rep. 51 (for 1897) 1899. 2:317-27. illus.
- Hall, Remains of Fishes. Pal. N. Y. 1852. 2:319-20.
- Flagstones.** Darton. Upper Flagstone Series; Lower Flagstone Series of Ulster County. Geol. rep. 13 (for 1893) 1894. p.298-300. *Same*, Mus. rep. 47 (for 1893) 1894. p.492-94.
- Hall, Flagging Stones. Geol. rep. 4th dist. (for 1837) 1838. p.356-58, 370-71; (for 1840) 1841. p.176-78. Geol. N. Y. pt4. 1843. p.438-39, 448, 497.
- Mather. Flagging Stones, Grindstones, etc. Geol. rep. 1st dist. (for 1839) 1840. p.231-32.
- Nason. Flagstones of Albany County. Geol. rep. 13 (for 1893) 1894. p.277-78, 285. *Same*, Mus. rep. 47 (for 1893) 1894. p.471-72, 479.
- Ries. Flagstones of Orange County. Geol. rep. 15 (for 1895) 1897. p.470. *Same*, Mus. rep. 49 (for 1895) 1898. 2:470.
- See also* Hudson river bluestone.
- Flammula.** Peck. New York Species of Flammula. Bot. rep. 50 (for 1896) 1897. p. 133-42. *Same*, Mus. rep. 50 (for 1896) 1898. 1:133-42.
- Flies,** *see* Diptera.
- Flies, lace-winged,** *see* Neuropteroid insects.
- Flint implements.** Bishop. On a Locality of Flint Implements in Wyoming County, N. Y. Geol. rep. 8 (for 1888) 1889. p.92-94. 1pl. in Geol. rep.9. *Same*, Mus. rep. 42 (for 1888) 1889. p.438-40. 1pl. in Mus. rep. 43.
- Floor tile.** Ries. Floor Tile. Mus. bul. 35. 1900. p. 774-76. *Same*, Mus. rep. 54 (for 1900) 1902. 2:774-76.
- Ries. Directory of Manufacturers. Mus. bul. 35. 1900. p.913-25. *Same*, Mus. rep. 54 (for 1900) 1902. 2:913-25.
- Fluorite.** Beck. Fluor Spar. Min. rep. (for 1836) 1837. p.58 (ed. 2, p.60). Min. N. Y. 1842. p.243-45. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.128.
- Hunt. Fluor Spar. Mus. rep. 21 (for 1867) 1871. p.72-73.
- Merrill. Localities. Mus. bul. 15. 1895. p.581. *Same*, Mus. rep. 48 (for 1894) 1895. 1:581.
- Mus. bul. 19. 1898. p.234. *Same*, Mus. rep. 51 (for 1897) 1899. 1:234.
- Whitlock. Fluorite (fluor spar). Mus. bul. 58. 1902. p.65.
- Food adulterants.** Ries. Food Adulterants. Mus. bul. 35. 1900. p.852. *Same*, Mus. rep. 54 (for 1900) 1902. 2:852.
- Footprints in limestone.** Owen. Regarding Human Footprints in Solid Limestone (abstract). Mus. rep. 9 (for 1855) 1856. p.53-59.
- Fordham gneiss.** Eckel. Quarries. Geol. rep. 20 (for 1900) 1902. p.r152-55. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r152-55.
- Merrill. Fordham Gneiss. Mus. rep. 50 (for 1896) 1898. 1:25-26 (1st paging).
- Forest tent caterpillar.** Felt. Forest Tent Caterpillar. Ent. rep. 14 (for 1898) 1898. p.191-201. (Mus. bul. 23). *Same*, Mus. rep. 52 (for 1898) 1900. 1:191-201.
- Forest, Fish and Game Com. rep. 4 (for 1898) 1899. p.374-80.
- Ag. Soc. Trans. 59 (for 1899) 1900. p.275-76.
- Ent. rep. 16 (for 1900) 1901. p.994-98 (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:994-98.

- Forest trees.** Felt. Shade and Forest Tree Pests. Ent. rep. 17 (for 1901). 1902. p.738-49. (Mus. bul. 53).
- Felt. Forest Insects. Ent. rep. 18 (for 1902). p.110-13. *In press.*
- Felt. Insects Affecting Forest Trees. Forest, Fish and Game Com. rep. 7 (for 1901). *In press.*
- Felt. Insects Affecting Park and Woodland Trees. Mus. mem. 7. *In press.*
- Fitch. Forest Trees, Insects Affecting. Ag. Soc. Trans. 14 (for 1854) 1855. p.852-73 (rep. 1. sep. ed. p.148-69).
- — — Ag. Soc. Trans. 15 (for 1855) 1856. p.488-501 (rep. 2. sep. ed. p.256-69)
- — — Ag. Soc. Trans. 16 (for 1856) 1856. p.438-77 (rep. 3. sep. ed. p.120-59)
- — — Ag. Soc. Trans. 17 (for 1857) 1858. p.691-753 (rep. 4. sep. ed. p.5-67.
- — — Ag. Soc. Trans. 18 (for 1858) 1859. p.781-854 (rep. 5. sep. ed. p.1-74.
- Lintner. Insects of the Hemlock. Ent. rep. 4 (for 1887) 1888. p.19-27. *Same*, Mus. rep. 41 (for 1887) 1888. p.139-47.
- See also* Spruces.
- Forester.** Lintner. Eight-spotted Forester. Ent. rep. 5 (for 1888) 1889. p.179-83. *Same*, Mus. rep. 42 (for 1888) 1889. p.179-83.
- Fort hills,** *see* Trench inclosures.
- Fossil bones.** Hall. Fossil Bones of Quadrupeds. Geol. rep. 4th dist. (for 1837) 1838. p.347. Geol. N. Y. pt4. 1843. p.363-67.
- Fossil ores,** *see* Clinton ores.
- Fossil trees.** Hall. Fossil Trees in Schoharie County. Mus. rep. 24 (for 1870) 1872. p.15-16.
- Nevius. A Fossil Plant from Orange County. Mus. rep. 52 (for 1898) 1900. 1:r79-81. pl. (phot.)
- Fossils,** *see* Paleontologic collection; Paleontology; *also* Index to genera and species, p.527.
- Frankfort slates (Hudson river; Lorraine; Pulaski).** Fitch. Silicious or Frankfort Slates of Washington County. Ag. Soc. Trans. 9 (for 1849) 1850. p.829-30.
- Mather. Frankfort Slate. Geol. rep. 1st dist. (for 1840) 1841. p.92.
- ^aVanuxem. Frankfort Slate. Geol. rep. 3d dist. (for 1839) 1840. p.372-73. Geol. N. Y. pt3. 1842. p.60-64.
- Vanuxem. Frankfort Slate in Herkimer County. Geol. N. Y. pt3. 1842. p.257.
- Vanuxem. Frankfort Slate in Lewis County. Geol. rep. 3d dist. (for 1839) 1840. p.356. Geol. N. Y. pt3. 1842. p.265, 269.
- Vanuxem. Frankfort Slate in Montgomery County. Geol. N. Y. pt3. 1842. p.250.
- Vanuxem. Frankfort Slate in Oneida County. Geol. N. Y. pt3. 1842. p.261.
- White. Frankfort Slates of Herkimer and Oneida Counties. Mus. rep. 51 (for 1897) 1899. 1:r33-36.
- See also* Hudson river group; Lorraine beds; Pulaski shales.
- Franklin county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.66-67.
- Cushing. Boundary between the Potsdam and Pre-Cambrian Rocks North of the Adirondacks. Geol. rep. 16 (for 1896) 1899. p.5-27. *Same*, Mus. rep. 50 (for 1896) 1899. 2:5-27.

Franklin county (*continued*)

Cushing. Preliminary Report on Geology. Geol. rep. 18 (for 1898) 1899. p.73-128, pl. (phot.) map. *Same*, Mus. rep. 52 (for 1898) 1900. 2:73-128. pl. (phot.) map.

Geologic map of Franklin county, 29x39cm.

Cushing. Recent Geologic Work in Franklin and St Lawrence Counties. Geol. rep. 20 (for 1900) 1902. p.r23-82. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r23-82.

Geologic map of the vicinity of Saranac lakes, 13.5x16cm.

Emmons. Ores of Clinton and Franklin. Geol. rep. 2d dist. (for 1840) 1841. p.133-35.

Emmons. Survey in the Interior of Hamilton, Essex and Franklin Counties. Geol. rep. 2d dist. (for 1840) 1841. p.113-33.

Emmons. Franklin County. Geol. N. Y. pt2. 1842. p.325-34.

Emmons. Iron Ores. Geol. N. Y. pt2. 1842. p.326-31.

Felt. Entomologic Investigations in. Forest, Fish and Game Com. rep. 6 (for 1900) 1901. p.499-531.

Needham. Entomologic Investigations in. Mus. bul. 47. 1901. p.383-612. *Same*, Mus. rep. 54 (for 1900) 1902. 4:383-612.

Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.46; 10. 1890. p.256.

— — — *revised* by Merrill. Mus. bul. 15. 1895. p.392. *Same*, Mus. rep. 48 (for 1894) 1895. 1:392 (2d paging).

See also Adirondacks.

Franklinite. Beck. Franklinite. Min. N. Y. 1842. p.451.

Hunt. Franklinite. Mus. rep. 21 (for 1867) 1871. p.89.

Whitlock. Franklinite. Mus. bul. 58. 1902. p.73-74.

Freestones. Hall. Sandstones or Freestones and their Varieties; their Geological Position and Geographical Distribution. Mus. rep. 39 (for 1885) 1886. p.196-99.

Mather. Red Sandstone or Freestone. Geol. N. Y. pt1. 1843. p.287.

Fruit tree bark beetle. Lintner. Fruit Tree Bark Beetle. Ent. rep. 4 (for 1887) 1888. p.103-7. *Same*, Mus. rep. 41 (for 1887) 1888. p.223-27.

Fruit trees. Felt. Fruit Tree Pests. Ent. rep. 17 (for 1901) 1902. p.731-38, 833-37. (Mus. bul. 53).

— — — Ent. rep. 18 (for 1902). p.104-5, 120. *In press*.

Fitch. Insects Infesting Fruit Trees. Ag. Soc. Trans. 14 (for 1854) 1855. p.709-842 (rep. 1. sep. ed. p.5-138).

— — — Ag. Soc. Trans. 15 (for 1855) 1856. p.413-87 (rep. 2. sep. ed. p.181-255).

— — — Ag. Soc. Trans. 16 (for 1856) 1856. p.321-87 (rep. 3. sep. ed. p.1-69).

Liñtner. List of Insects on Apple Trees. Ent. rep. 1 (for 1881) 1882. p.327-32.

— — — Ent. rep. 11 (for 1895) 1896. p.263-72. *Same*, Mus. rep. 49 (for 1895) 1897. 1:263-72.

Lintner. Some Pests of the Pomologist. Ent. rep. 4 (for 1887) 1888. p.183-92. *Same*, Mus. rep. 41 (for 1887) 1888. p.303-12.

Lintner. Late Experiences with Insects Injurious to the Orchard and Garden. Ent. rep. 7 (for 1890) 1891. p.342-56. *Same*, Mus. rep. 44 (for 1890) 1892. p.342-56.

Lintner. On Arsenical Spraying of Fruit Trees while in Blossom. Ent. rep. 11 (for 1895) 1896. p.117-24. *Same*, Mus. rep. 49 (for 1895) 1897. 1:117-24.

See also English names of species.

Fruits. Felt. Small Fruit Insects. Ent. rep. 17 (for 1901) 1902. p.837-40. (Mus. bul. 53).

— — — Ent. rep. 18 (for 1902). p.105-6. *In press*.

Fruits (*continued*)

- Fitch. Small Fruits, Insects Affecting. Ag. Soc. Trans. 14 (for 1854). 1855. p.843-49, 880 (rep. 1. sep. ed. p.139-45, 176).
- — — Ag. Soc. Trans. 16 (for 1856) 1856. p.387-437 (rep. 3. sep. ed. p.69-119).
- — — Ag. Soc. Trans. 27 (for 1867) 1868. 2:908-32 (rep. 12).
- Peck. Edible Wild Fruits of New York. Alb. Inst. Trans. 1893. 12:83-102.
- Fucoidal layers (Calciferous sandrock).** Darton. Fucoidal Layers in the Mohawk Valley. Geol. rep. 13 (for 1893) 1894. p.420-21. *Same*, Mus. rep. 47 (for 1893) 1894. p.614-15.
- Emmons. Fucoidal Layers of Clinton County. Geol. N. Y. pt2. 1842. p.310.
- Emmons. Fucoidal Layers and Calciferous Sandrock of Essex County. Geol. N. Y. pt2. 1842. p.270-72.
- Vanuxem. Fucoidal Layers. Geol. rep. 3d dist. (for 1839) 1840. p.363, 369-70. Geol. N. Y. pt3. 1842. p.35-38.
- Vanuxem. Fucoidal Layers in Lewis County. Geol. N. Y. pt3. 1842. p.265, 267.
- Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.35-37.
- See also* Calciferous sandrock.
- Fucoidal sandstone.** Conrad. Fucoidal Sandstone. Pal. rep. (for 1840) 1841. p.31.
- Fucoides.** Hall. Some Spiral-growing Fucoidal Remains of the Paleozoic Rocks of New York. Mus. rep. 16 (for 1862) 1863. p.76-83. illus. 1pl.
- Fucoides cauda-galli,** *see* Cauda galli grit.
- Fullers' earth.** Ries. Fullers Earth. Mus. bul. 35. 1900. p.848-51. *Same*, Mus. rep. 54 (for 1900) 1902. 2:848-51.
- Fulton county.** Darton. Geology of the Mohawk Valley in Herkimer, Fulton, Montgomery and Saratoga Counties. Geol. rep. 13 (for 1893) 1894. p.407-29. pl. (phot.) *Same*, Mus. rep. 47 (for 1893) 1894. p.601-23. pl. (phot.)
- Darton. Faulted Region. Geol. rep. 14 (for 1894) 1895. p.11-12, 31-53. pl. (phot.) map. *Same*, Mus. rep. 48 (for 1894) 1895. 2:11-12, 31-53. pl. (phot.) map.
- Preliminary geologic map of portions of Herkimer, Fulton, Montgomery, Saratoga and adjacent counties (uncolored) 28.5x16.5cm.
- Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.558-59 (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:558-59.
- — — Ent. rep. 16 (for 1900) 1901. p.1008-9 (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1008-9.
- — — Ent. rep. 17 (for 1901) 1902. p.781. (Mus. bul. 53).
- Kemp & Hill. Precambrian Formations. Geol. rep. 19 (for 1899) 1901. p.17-35. pl. (phot.) maps. *Same*, Mus. rep. 53 (for 1899) 1901. 1:17-35. pl. (phot.) maps.
- Small, uncolored geologic maps; map of the "Noses" (colored).
- Ries. Brick Yards. Mus. bul. 12. 1895. p.198, 246. *Same*, Mus. rep. 48 (for 1894) 1895. 1:198, 246 (2d paging).
- — — Mus. bul. 35. 1900. p.714. *Same*, Mus. rep. 54 (for 1900) 1902. 2:714.
- Ries. Limestone Formations. Mus. bul. 44. 1901. p.783. *Same*, Mus. rep. 54 (for 1900) 1902. 3:783.
- Vanuxem. Montgomery and Fulton Counties. Geol. N. Y. pt3. 1842. p.249-53.
- Fungi.** Banning. Fungi of Maryland. Bot. rep. 44 (for 1890) 1891. p.64-75. *Same*, Mus. rep. 44 (for 1890) 1892. p.176-87.
- Dudley. Fungi Destructive to Wood. Mus. rep. 41 (for 1887) 1888. p.86-94.

Fungi (*continued*)

— — Bot. rep. 43 (for 1889) 1890. p.45-47. *Same*, Mus. rep. 43 (for 1889) 1890. p.91-93.

Peck. Fungi. Alb. Inst. Trans. 1870. 6:209-26.

Peck. Parasitic Fungi of New York and their Supporting Plants. Mus. rep. 29 (for 1875) 1878. p.71-82.

Peck. Contributions to the Botany of the State of New York. Mus. bul. 2. 1887. 65p. 2pl.

Contents: Descriptions of new species of New York fungi; Additions to flora of State; Descriptions of New York species of fungi belonging to the genera Paxillus, Cantharellus and Craterellus; Names of New York species of Pyrenomycetous fungi according to the Saccardoan system of arrangement; Descriptions of New York species of viscid Boleti.

Peck. List of New York Fungi represented at the World's Columbian Exposition at Chicago. Bot. rep. 47 (for 1893) 1894. p.43-46. *Same*, Mus. rep. 47 (for 1893) 1894. p.169-72.

Peck. Preliminary List of Hymenomycetous Fungi Inhabiting our Principal Coniferous Forest Trees. Bot. rep. 47 (for 1893) 1894. p.46-48. *Same*, Mus. rep. 47 (for 1893) 1894. p.172-74.

Peck. Edible and Poisonous Fungi of New York. Bot. rep. 48 (for 1894) 1895. p.105-218. 44pl. *Same*, Mus. rep. 48 (for 1894) 1895. 1:203-316. 44pl. in v.3.

Peck. Edible Fungi. Bot. rep. 49 (for 1895) 1896. p.56-64. 5pl. *separate*. *Same*, Mus. rep. 49 (for 1895) 1897. 1:70-78. 5pl.

— — Bot. rep. 51 (for 1897) 1898. p.300-12. 7pl. *separate*. *Same*, Mus. rep. 51 (for 1897) 1899. 1:300-12. 7pl.

— — Bot. rep. 52 (for 1898) 1899. p.673-82. 5pl. *separate*. *Same*, Mus. rep. 52 (for 1898) 1900. 1:673-82. 5pl.

— — Bot. rep. 54 (for 1900) 1901. p.173-86. 8pl. *Same*, Mus. rep. 54 (for 1900) 1902. 1:173-86 (1st paging). 8pl.

— — Bot. rep. 55 (for 1901) 1902. p.966-78. 5pl. *Same*, Mus. rep. 55 (for 1901). *In press*.

Peck. Unwholesome Fungi. Bot. rep. 49 (for 1895) 1896. p.65. 1pl. *Same*, Mus. rep. 49 (for 1895) 1897. 1:79. 1pl.

Peck. Report of the State Botanist on Edible Fungi of New York, 1895-99. Mus. mem. 4. 1900. p.129-234. 25pl. *Same*, Mus. rep. 53 (for 1899) 1901. 2:129-234. 25pl.

This consists in part of revised descriptions and illustrations of fungi reported in the 49th, 51st and 52d reports of the state botanist.

See also Aecidium; Agaricus; Amanita; Armillaria; Boletus; Cantharellus; Claudopus; Clavaria; Clitopilus; Collybia; Coprinus; Cortinarius; Craterellus; Crepidotus; Flammula; Galera; Hygrophorus; Lactarius; Lentinus; Lepiota; Lycoperdon; Marasmius; Omphalia; Paxillus; Pleurotus; Pluteolus; Pluteus; Psalliota; Puccinia; Russula; Tricholoma; Uncinulae; also Paleobotany; also miscellaneous descriptions in *Botanist's reports*.

Fungicides. Felt. Insecticides and Fungicides. University handbook 18. 16p. *In press*.

Furnace flux. Rles. Furnace Flux. Geol. rep. 17 (for 1897) 1899. p.372. *Same*, Mus. rep. 51 (for 1897) 1899. 2:372.

— — Mus. bul. 44. 1901. p.654-55. *Same*, Mus. rep. 54 (for 1900) 1902. 3:654-55.

Gabbros. Cushing. Gabbros of Clinton County. Geol. rep. 13 (for 1893) 1894. p.476. *Same*, Mus. rep. 47 (for 1893) 1894. p.670.

— — Geol. rep. 15 (for 1895) 1897. p.508-73. *Same*, Mus. rep. 49 (for 1895) 1898. 2:508-73.

— — Geol. rep. 19 (for 1899) 1901. p.r52-59. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r52-59.

Gabbros (*continued*)

- Cushing. Gabbros of Adirondacks. Geol. rep. 16 (for 1896) 1899. p.11-12.
Same, Mus. rep. 50 (for 1896) 1899. 2:11-12.
- — — Geol. rep. 18 (for 1898) 1899. p.133-34. *Same*, Mus. rep. 52 (for 1898) 1900. 2:133-34.
- Cushing. Gabbros of Franklin County. Geol. rep. 18 (for 1898) 1899. p.109-14. *Same*, Mus. rep. 52 (for 1898) 1900. 2:109-14.
- Cushing. Gabbros of Franklin and St Lawrence Counties. Geol. rep. 20 (for 1900) 1902. p.r33-82. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r33-82. Including analyses.
- Kemp. Gabbros of Essex County. Geol. rep. 13 (for 1893) 1894. p.445-72. *Same*, Mus. rep. 47 (for 1893) 1894. p.639-66.
- — — Geol. rep. 15 (for 1895) 1897. p.580-608. *Same*, Mus. rep. 49 (for 1895) 1898. 2:580-608.
- Kemp. Geology of Moriah and Westport Townships, Essex County. Mus. bul. 14. 1895. p.325-40. *Same*, Mus. rep. 48 (for 1894) 1895. 1:325-40 (2d paging).
- Kemp & Newland. Gabbros of Adirondacks. Geol. rep. 17 (for 1897) 1899. p.511-52. *Same*, Mus. rep. 51 (for 1897) 1899. 2:511-52.
- Kemp, Newland & Hill. Gabbros of Adirondacks. Geol. rep. 18 (for 1898) 1899. p.145-62. *Same*, Mus. rep. 52 (for 1898) 1900. 2:145-62.
- Kemp & Hill. Gabbros of Warren County. Geol. rep. 19 (for 1899) 1901. p.r24. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r24.
- Smock. Gabbros. Mus. bul. 10. 1890. p.204-5.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.374-75. *Same*, Mus. rep. 48 (for 1894) 1895. 1:374-75 (2d paging).
- — — *revised* by Merrill. Mus. bul. 19. 1898. p.183-84. *Same*, Mus. rep. 51 (for 1897) 1899. 1:183-84.
- Smyth. Gabbros of Adirondacks. Geol. rep. 17 (for 1897) 1899. p.472. *Same*, Mus. rep. 51 (for 1897) 1899. 2:472.
- See also* Crystalline rocks.
- Galena.** Beck. Sulphuret of Lead or Galena. Min. rep. (for 1836) 1837. p.51-58 (ed. 2, p.53-60); (for 1838) 1839. p.50-51. Min. N. Y. 1842. p.44-52, 412-14. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.149-50.
- Emmons. Galena and Lead in St Lawrence County. Geol. N. Y. pt.2. 1842. p.354-60.
- Mather. Lead, Copper and Zinc Ores of Columbia and Dutchess Counties. Geol. rep. 1st dist. (for 1837) 1838. p.176-81.
- Mather. Lead Ore. Geol. rep. 1st dist. (for 1840) 1841. p.112. Geol. N. Y. pt.1. 1843. p.498-509.
- Merrill. Localities. Mus. bul. 15. 1895. p.580. *Same*, Mus. rep. 48 (for 1894) 1895. 1:580 (2d paging).
- — — Mus. bul. 19. 1898. p.232. *Same*, Mus. rep. 51 (for 1897) 1899. 1:232.
- Whitlock. Galena. Mus. bul. 58. 1902. p.52-53.
- Galera.** Peck. New York Species of Galera. Bot. rep. 46 (for 1892) 1893. p.61-69. *Same*, Mus. rep. 46 (for 1892) 1893. p.141-49.
- Gall beetle.** Lintner. Gouty Gall Beetle. Ent. rep. 6 (for 1889) 1890. p.123-25. *Same*, Mus. rep. 43 (for 1889) 1890. p.123-25.
- — — Ent. rep. 10 (for 1894) 1895. p.406-7. *Same*, Mus. rep. 48 (for 1894) 1895. 1:406-7 (1st paging).
- Gall-flies**, *see* Hymenoptera.
- Galt.** Hall. Fossils from the Limestone at Galt, Canada West. Pal. N. Y. 1852. 2:340-50; 1859. 3:30-32.
- See also* Guelph formation.

- Gardeau group (Portage).** *a*Hall. Gardeau, or, Lower Fucoidal Group. Geol. rep. 4th dist. (for 1839) 1840. p.391. Geol. N. Y. pt4. 1843. p.227-28.
- Hall. Gardeau Rocks in Allegany County. Geol. rep. 4th dist. (for 1839) 1840. p.401. Geol. N. Y. pt4. 1843. p.484.
- Hall. Gardeau Group in Cattaraugus County. Geol. rep. 4th dist. (for 1839) 1840. p.412.
- Hall. Gardeau Group in Erie County. Geol. rep. 4th dist. (for 1840) 1841. p.165. Geol. N. Y. pt4. 1843. p.473.
- Hall. Gardeau Rocks in Genesee County. Geol. rep. 4th dist. (for 1839) 1840. p.430. Geol. N. Y. pt4. 1843. p.467-68.
- Hall. Gardeau Group in Livingston County. Geol. rep. 4th dist. (for 1839) 1840. p.423. Geol. N. Y. pt4. 1843. p.463.
- See also* Portage group.
- Gardeau shales,** *see* Naples shales.
- Garden crops.** Felt. Insects Infesting. Ent. rep. 17 (for 1901) 1902. p.749-57, 840-44 (Mus. bul. 53).
- Fitch. Insects Infesting Green Vegetables. Ag. Soc. Trans. 14 (for 1854) 1855. p.874-79. (rep. 1. sep. ed. p.170-75).
- Ag. Soc. Trans. 22 (for 1862) 1863. p.659-75 (rep. 8. sep. ed. p.177-93).
- Ag. Soc. Trans. 23 (for 1863) 1864. p.778-817 (rep. 9. sep. ed. p.211-50).
- Ag. Soc. Trans. 24 (for 1864) 1865. p.433-61 (rep. 10).
- Ag. Soc. Trans. 29 (for 1869) 1870. p.495-566 (rep. 13).
- Lintner. Late Experiences with Insects Injurious to the Orchard and Garden. Ent. rep. 7 (for 1890) 1891. p.342-56. *Same*, Mus. rep. 44 (for 1890) 1892. p.342-56.
- Garnet.** Beck. Garnet. Min. rep. (for 1836) 1837. p.59 (ed. 2, p.61). Min. N. Y. 1842. p.323-28. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.136.
- Hunt. Garnet. Mus. rep. 21 (for 1867) 1871. p.83-84.
- Mather. Yellow Garnet of Edenville. Geol. N. Y. pt1. 1843. p.514.
- Merrill. Garnet. Mus. bul. 15. 1895. p.553-55. *Same*, Mus. rep. 48 (for 1894) 1895. 1:553-55 (2d paging).
- Mus. bul. 19. 1898. p.225-26. *Same*, Mus. rep. 51 (for 1897) 1899. 1:225-26.
- Whitlock. Garnet. Mus. bul. 58. 1902. p.98-99.
- Gas manufacture.** Ries. Gas Manufacture. Mus. bul. 44. 1901. p.671. *Same*, Mus. rep. 54 (for 1900) 1902. 3:671.
- Gas springs,** *see* Carbonated springs; Carburetted hydrogen; Nitrogen (Chateaugay) springs; Sulfur springs.
- Gaspé limestones.** Clarke. Fauna. Mus. mem. 3. 1900. p.80-82. *Same*, Mus. rep. 53 (for 1899) 1901. 2:80-82.
- Gastropoda.** Catalogue of Muricidae in the Collection of the State Museum (exclusive of the Mazatlan collection) identified and arranged in Accordance with Tryon's Manual of Conchology. Mus. rep. 45 (for 1891) 1892. p.29-45.
- Catalogue of the Families Tritonidae, Fusidae, Buccinidae, Nassidae, Turbinellidae, Volutidae and Mitridae in the Collections of the State Museum exclusive of the Mazatlan Collection. Mus. rep. 46 (for 1892) 1893. p.31-61.
- Catalogue of the Marginellidae, Olividae, Columbelloidae, Conidae, Terebridae, Cancellariidae, Strombidae, Cypraeidae, Oculidae, Cassididae and Doliidae in Museum Collections, exclusive of Mazatlan Collection. Mus. rep. 47 (for 1893) 1894. p.79-128.

Gastropoda (*continued*)

- De Kay. Gastropoda. Zool. N. Y. 1843. v.5. pt5. p.7-165.
- Green. Cones of North America. Alb. Inst. Trans. 1830. 1:121-25.
- Green. Dolia of the United States. Alb. Inst. Trans. 1830. 1:131-33. 1pl.
- Simpson. Anatomy of the Snail; *Helix thyroides*. Mus. rep. 39 (for 1885) 1886. p.127, pl.3.
- Simpson. Anatomy and Physiology of *Polygyra albolabris* and *Limax maximus* and Embryology of *Limax maximus*. Mus. bul. 40. 1901. p.237-311. 28pl.(lith.) 1pl.(phot.) *Same*, Mus. rep. 54 (for 1900) 1902. 3:237-311. 28pl. (lith.) 1pl. (phot.)
- Gastropoda (paleozoic).** Clarke. Type Specimens in New York State Museum. Mus. bul. 65. *In press*.
- Clarke. Oriskany Species of Becraft Mountain. Mus. mem. 3. 1900. p.28-31. *Same*, Mus. rep. 53 (for 1899) 1901. 2:28-31.
- Grabau. Gastropoda of Hamilton Group. Geol. rep. 16 (for 1896) 1899. p. 246-50. *Same*, Mus. rep. 50 (for 1896) 1899. 2:246-50.
- Grabau. Gastropoda of Niagara Region. Mus. bul. 45. 1901. p.210-13. *Same*, Mus. rep. 54 (for 1900) 1902. 4:210-13.
- Hall. Gasteropoda of Lower Silurian. Pal. N. Y. 1847. v.1 (various page references, *see* Table, p.326).
- Hall. Tracks of Gasteropoda in Clinton Group. Pal. N. Y. 1852. 2:26-37, 353-54.
- Hall. Gasteropoda of Clinton Group. Pal. N. Y. 1852. 2:89-93.
- Hall. Gasteropoda of Niagara Group. Pal. N. Y. 1852. 2:286-89. Mus. rep. 20 (for 1866) 1867. p.341-47, 364-67.
- Hall. Gasteropoda of Coralline Limestone. Pal. N. Y. 1852. 2:333-34.
- Hall. Gasteropoda from Limestone at Galt, Canada. Pal. N. Y. 1852. 2:345-50.
- Hall. Gasteropoda of Lower Helderberg Group. Pal. N. Y. 1859. 3:292-341.
- Hall. Gasteropoda of Oriskany Sandstone. Pal. N. Y. 1859. 3:468-79.
- Hall. Observations on the Genera *Capulus*, *Pileopsis*, *Acroculia* and *Platyceras*. Mus. rep. 12 (for 1858) 1859. p.15-19.
- Hall. Observations on the Genera *Platystoma* and *Strophostylus*. Mus. rep. 12 (for 1858) 1859. p.20-22.
- Hall. New Species. Mus. rep. 14 (for 1860) 1861. p.103-7.
- Hall. Note on the Genera *Bellerophon*, *Bucania*, *Carinaropsis* and *Cyrtolites*. Mus. rep. 14 (for 1860) 1861. p.93-98.
- Hall. Gasteropoda. Mus. rep. 15 (for 1861) 1862. p.29-63.
- Hall. Gasteropoda of Potsdam Sandstone. Mus. rep. 16 (for 1862) 1863. p.136.
- Hall. Illustrations of Devonian Fossils. Gasteropoda. 1876.
- Hall. Gasteropoda of Niagara Group in Central Indiana. Mus. rep. 28 (for 1874) 1879. p.175-78.
- Hall. Gasteropoda of the Upper Helderberg, Hamilton, Portage and Chemung Groups. Pal. N. Y. 1879. v.5. pt2. p.1-138 (v.1, text; v.2, plates).
- Letson. Gastropoda of Niagara River Gravels. Mus. bul. 45. 1901. p.239-45. *Same*, Mus. rep. 54 (for 1900) 1902. 4:239-45.
- Ruedemann. Gastropoda of Trenton Conglomerate of Rysedorph Hill. Mus. bul. 49. 1901. p.29-36.
- Wood. Gastropoda of Marcellus (Stafford) Limestones of Lancaster, Erie Co. N. Y. Mus. bul. 49. 1901. p.169-70.
- Gebhard collection.** Catalogues. Mus. rep. 6 (for 1852) 1853. p.12-13, 29-30; 25 (for 1871) 1873. p.7, 27-33; 26 (for 1872) 1874. p.7.

- Gems.** Catalogue of Gems and Precious Stones. Mus. rep. 41 (for 1887) 1888. p.44-48.
- Genesee county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.67.
- Bishop. Natural Gas. Geol. rep. 17 (for 1897) 1899. p.22-23. *Same*, Mus. rep. 51 (for 1897) 1899. 2:22-23.
- Bishop. Oil and Gas in. Geol. rep. 19 (for 1899) 1901. p.r123-24. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r123-24.
- Clarke. Agoniatite Limestone. Mus. bul. 49. 1901. p.120.
- Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.559-60 (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:559-60.
- — — Ent. rep. 16 (for 1900) 1901. p.1009-10 (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1009-10.
- — — Ent. rep. 17 (for 1901) 1902. p.781-84 (Mus. bul. 53).
- — — Ent. rep. 18 (for 1902). p.146-47. *In press*.
- Hall. Genesee County. Geol. rep. 4th dist. (for 1839) 1840. p.424-31. Geol. N. Y. pt4. 1843. p.464-69.
- Ries. Brick Yards. Mus. bul. 12. 1895. p.248. *Same*, Mus. rep. 48 (for 1894) 1895. 1:248 (2d paging).
- Ries. Drain Tile Works. Mus. bul. 12. 1895. p.222-23. *Same*, Mus. rep. 48 (for 1894) 1895. 1:222-23 (2d paging).
- — — Mus. bul. 35. 1900. p.771-72. *Same*, Mus. rep. 54 (for 1900) 1902. 2:771-72.
- Ries. Limestone Formations. Mus. bul. 44. 1901. p.783-85. *Same*, Mus. rep. 54 (for 1900) 1902. 3:783-85.
- Smock. Building Stone Quarries. Mus. bul. 3. 1888. p. 131; 10. 1890. p.253.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.446. *Same*, Mus. rep. 48 (for 1894) 1895. 1:446 (2d paging).
- Genesee river.** Hall. Geology of the Genesee River, with map. Geol. rep. 4th dist. (for 1837) 1838. p.292-94.
- Horsford. Map illustrating geology of the Genesee river. Geol. rep. 1837-41. v.2; Assembly doc. 1838, no. 200.
- Genesee shales (black shale, upper).** Bishop. Genesee Shales of Erie County. Geol. rep. 15 (for 1895) 1897. p.316-20, 389. *Same*, Mus. rep. 49 (for 1895) 1898. 2:316-20, 389.
- Clarke. Genesee Slate. Geol. rep. 15 (for 1895) 1897. p.42-43. *Same*, Mus. rep. 49 (for 1895) 1898. 2:42-43.
- Clarke. Genesee Shales of Ontario County. Geol. rep. 4 (for 1884) 1885. p.17-19.
- Clarke & Schuchert. Genesee Shale. *See* New York series.
- Delafield. Genesee Slate of Seneca County. Ag. Soc. Trans. 10 (for 1850) 1851. p.461-67.
- Emmons. Genesee Slate. Ag. N. Y. 1846. 1:189.
- Geddes. Genesee Slate of Onondaga County. Ag. Soc. Trans. 19 (for 1859) 1860. p.254.
- Grabau. Genesee Slate. Geol. rep. 16 (for 1896) 1899. p.234. *Same*, Mus. rep. 50 (for 1896) 1899. 2:234.
- Hall. Genesee Slate. Geol. N. Y. pt4. 1843. p.218-23.
- Hall. Genesee Shale of Erie County. Geol. N. Y. pt4. 1843. p.473.
- Hall. Genesee Shale of Genesee County. Geol. N. Y. pt.4. 1843. p.467.
- Hall. Genesee Slate of Livingston County. Geol. N. Y. pt4. 1843. p.462-63.
- Hall. Genesee Slate of Ontario County. Geol. N. Y. pt4. 1843. p.457.
- Hall. Genesee Slate of Seneca County. Geol. N. Y. pt4. 1843. p.452.

Genesee shales (*continued*)

- Hall. Genesee Slate in Tompkins County. Geol. N. Y. pt4. 1843. p.475.
- Hall. Genesee Slate in Yates County. Geol. N. Y. pt4. 1843. p.458.
- Hall. Organic Remains. Geol. N. Y. pt4. 1843. p.221-23.
- Hall. On the Occurrence of Crustacean Remains of the Genera *Ceraticaris* and *Dithyrocaris*, with a notice of some new species from the Hamilton group and Genesee slate. Mus. rep. 16 (for 1862) 1863. p.71-75.
- Lincklaen. Genesee Slate. Mus. rep. 14 (for 1860) 1861. p.68.
- Lincoln. Genesee Shale of Seneca County. Geol. rep. 14 (for 1894) 1895. p.97-99, 103. *Same*, Mus. rep. 48 (for 1894) 1895. 2:97-99, 103.
- Luther. Genesee Shales in Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p.35-38. *Same*, Mus. rep. 47 (for 1893) 1894. p.229-32.
- Luther. Genesee Slate of Onondaga County. Geol. rep. 15 (for 1895) 1897. p.285-86. *Same*, Mus. rep. 49 (for 1895) 1898. 2:285-86.
- Luther. Genesee Slate. Geol. rep. 16 (for 1896) 1899. p.221-22. *Same*, Mus. rep. 50 (for 1896) 1899. 2:221-22.
- Merrill. Genesee. Mus. bul. 19. 1898. p.163-64. *Same*, Mus. rep. 51 (for 1897) 1899. 1:163-64.
- α Vanuxem. Genesee Slate. Geol. N. Y. pt3. 1842. p.168-69.
- Vanuxem. Genesee Slate in Cayuga County. Geol. N. Y. pt3. 1842. p.289.
- Vanuxem. Genesee Slate in Chenango County. Geol. N. Y. pt3. 1842. p.292.
- Vanuxem. Genesee Slate in Cortland County. Geol. N. Y. pt3. 1842. p.290.
- Vanuxem. Genesee Slate in Madison County. Geol. N. Y. pt3. 1842. p.277.
- Vanuxem. Genesee Slate in Onondaga County. Geol. N. Y. pt3. 1842. p.285.
- Vanuxem. Genesee Slate in Tompkins County. Geol. N. Y. pt3. 1842. p.298.
- Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.168.
- Wright. Genesee Slate in Yates County. Mus. rep. 35 (for 1881) 1884. p.201-2.
- See also* Black shale.
- Genista caterpillar.** Lintner. Genista Caterpillar. Ent. rep. 11 (for 1895) 1896. p.142-45. *Same*, Mus. rep. 49 (for 1895) 1897. 1:142-45.
- Geodiferous limerock,** *see* Niagara group.
- Geodiferous limestone (Lockport; Niagara).** Hall. Geodiferous and Bituminous Limestone. Geol. rep. 4th dist. (for 1837) 1838. p.302-3.
- See also* Lockport limestone; Niagara limestone.
- Geologic collection of museum.** Additions. Mus. rep. 2, p.68; 3 *rev. ed.* p.32-37; 4, p.80-90; 6, p.28; 7, p.57-59; 8, p.27-31; 9, p.45-48; 11, p.11-36; 12, p.108; 13, p.19; 18, p.11-12; 19, p.39-41; 20 *rev. ed.* p.17-20; 21, p.15-19; 22, p.10-12, 16; 23, p.17-19; 24, p.21-28; 25, p.19-21; 26, p.19-20; 27, p.30-33; 28, p.23-25; 29, p.22-23; 30, p.15-17; 31, p.13; 34, p.16-19; 35, p.15-16; 36, p.18-19; 37, p.28; 38, p.17-18; 39, p.16-19; 40, p.23-26; 42, p.52-62; 43, p.14-15, 34-36; 45, p.27-28, 347-69; 46, p.196-99; 49, 1:10; 50, 1:17-19; 51, 1:r13-17; 52, 1:r18-21; 53, 1:r163-65. Geol. rep. 11, p.33-53; 12, p.50-53.
- For dates of Mus. rep., *see* List of publications, p.241.
- Catalogue of Specimens collected by J. F. Kemp, for Report on Moriah and Westport Townships. Mus. rep. 48 (for 1894) 1895. 1:32-39.

Geologic collection of museum (*continued*)

- Catalogue of Translucent Sections of Rocks and Fossils, in Museum. Mus. rep. 37 (for 1883) 1884. p.33-43.
- Clarke. Catalogue of the Collection of Geological and Palaeontological Specimens donated by the Albany Institute to the State Museum. Geol. rep. 11 (for 1891) 1892. p.33-53. *Same*, Mus. rep. 45 (for 1891) 1892. p.347-69.
- De Rham Collection. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.37; 27 (for 1873) 1875. p.41-42.
- Emmons. Catalogue of the Specimens arranged by Prof. E. Emmons, as Representatives of the Taconic System, at the Close of the Geological Survey of New York in 1843. Geol. rep. 8 (for 1888) 1889. p.95-98. *Same*, Mus. rep. 42 (for 1888) 1889. p.441-44.
- Hall. Catalogue of Specimens. Mus. rep. 1 (for 1847) 1848. 39p.
- Hall. Catalogue of Specimens of the Rocks and Fossils in the Gray Sandstone, Medina Sandstone, Clinton Group, Niagara Group, Onondaga Salt Group and a Part of the Water-lime Group. Mus. rep. 4 (for 1850) 1851. p.117-42.
- Hall. Record of Localities of Extra Limal Geological and Palaeontological Collections of the New York State Museum. Geol. rep. 11 (for 1891) 1892. p.122-23. *Same*, Mus. rep. 45 (for 1891) 1892. p.438-39.
- Hall. Additions to the Museum Collections in Geology and Palaeontology made in Connection with Work on the Geological Map. Mus. rep. 46 (for 1892) 1893. p.75-81.
- Hall, J. W. Machinery and Methods of Cutting Specimens of Rocks and Fossils. Mus. rep. 35 (for 1881) 1884. p.121-24. 2pl.
- Hough Collection. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.33-35; 4 (for 1850) 1851. p.82-90.
- Merrill. Guide to the Study of the Geological Collections of the New York State Museum. Mus. bul. 19. 1898. p.105-262. 119pl. (phot.) map. *Same*, Mus. rep. 51 (for 1897) 1899. 1:105-262. 119pl. (phot.) map. Relief map of the State of New York showing the boundaries of the geologic systems, 33x43cm.
- Synoptical Geological Collection. Mus. rep. 51 (for 1897) 1899. 1:r5-6.
- Vanuxem. Of the Rocks collected for the State and for the Colleges. Geol. N. Y. pt3. 1842. p.304-5.
- Geologic collections.** Nevius, *comp.* Preliminary List of Public Geological and Mineralogical Collections in the United States and Canada. Mus. rep. 50 (for 1896) 1898. 1:45-74 (1st paging).
- Merrill. Directory of Natural History Museums in United States and Canada. Mus. bul. 62. *In press.*
- Geologic map of New York.** Geologic Map of the State. 1842. 92x99cm. Issued by the four geologists.
- Geological and Agricultural Map of the State. 1844. 92x107cm.
Printed from same stones in different colors and shows Taconic system of Emmons. It is known as the Emmons map.
- Hall. Reports on Geological Map of the State of New York. Geol. rep. 4 (for 1884) 1885. p.4-8; 9 (for 1889) 1890. p.16-25; 12 (for 1892) 1893. p.8-13, 25-39; 13 (for 1893) 1894. p.193-94; 14 (for 1894) 1895. p.9-11; 15 (for 1895) 1897. p.7. Mus. rep. 36 (for 1883) 1884. p.12; 38 (for 1884) 1885. p.62-65; 43 (for 1889) 1890. p.218-27; 46 (for 1892) 1893. p.154-59, 171-85; 47 (for 1893) 1894. p.13-14, 387-88; 48 (for 1894) 1895. 1:43, 2:9-11; 49 (for 1895) 1898. 2:7.
- Hall. Additions to the Museum Collections in Geology and Palaeontology made in Connection with Work on the Geological Map. Mus. rep. 46 (for 1892) 1893. p.75-81.
- Merrill. Economic and Geologic Map of the State of New York. 59x67cm. 1894. Mus. bul. 15. 1895; description, p.365-71. *Same*, Mus. rep. 48 (for 1894) 1895, v.1; description, p.365-71 (2d paging).
Scale 14 miles to 1 inch. New edition in preparation.

Geologic map of New York (*continued*)

Merrill. Geologic Map of New York. 1901.

Scale 5 miles to 1 inch.

For fuller description, *see* p.271.

Merrill. Geologic Map, Topographic Sheets. Geol. rep. 19 (for 1899) 1901. p.13-15. map. *Same*, Mus. rep. 53 (for 1899) 1901. 1:13-15. map.

Map of New York showing atlas sheets surveyed by the United States Geological Survey in cooperation with the state engineer and surveyor, Jan. 1, 1900 (uncolored) 22.5x17.5cm.

Merrill. Description of the State Geologic Map of 1901. Mus. bul. 56. 1902. 35p.

Contains a description of earlier geologic maps and their geographic bases.

Preparation Suggested. Mus. rep. 24 (for 1870) 1872. p.11.

Reports Preliminary to Construction. Geol. rep. 13 (for 1893) 1894. p.191-557. *Same*, Mus. rep. 47 (for 1893) 1894. p.391-751.

— Geol. rep. 14 (for 1894) 1895. p.31-125. *Same*, Mus. rep. 48 (for 1894) 1895. 2:31-125.

— Geol. rep. 15 (for 1895) 1897. p.9-698. *Same*, Mus. rep. 49 (for 1895) 1898. 2:9-698.

— Geol. rep. 16 (for 1896) 1899. p.1-27, 171-226. *Same*, Mus. rep. 50 (for 1896) 1899. 2:1-27, 171-226.

Vanuxem. Explanation of that Part of the Geological Map of the State which relates to the Third District. Geol. N. Y. pt3. 1842. p.300-3.

See also references under heading Topographic sheets.

Geologic maps. Hall. Geological Map of the Middle and Western States. Geol. N. Y. pt4. 1843. p.681-83. map 82x57.5cm.

Merrill. Geological Map of a Part of Southeastern New York showing Distribution of Rocks used as Building Stones. 23x35cm. Mus. bul. 15. 1895. description, p.370. *Same*, Mus. rep. 48 (for 1894) 1895. v.1, description, p.370 (2d paging).

Geological Hall. Addresses delivered at the Inauguration August 27, 1856. Mus. rep. 10 (for 1856) 1857. p.11-28.

Geological survey, see Natural History Survey of the State of New York; *also following entries.*

Geological survey, first district. Mather. Annual Report of the First Geological District. Assembly doc. 1837, no. 161, p.61-95 (ed. 2, p.63-97); 1838, no. 200, p.121-84; 1839, no. 275, p.69-199; 1840, no. 50, p.209-58; 1841, no. 150, p.59-112.

Mather. Geology of New York, pt1, comprising the Geology of the First Geological District. 1843. 37+653p. 46pl. sq. Q.

Geological survey, second district. Emmons. Annual Report of 2d Geological District. Assembly doc. 1837, no.161, p.97-153 (ed. 2, p.99-155); 1838, no.200, p.185-252; 1839, no.275, p.201-39; 1840, no.50, p.259-353; 1841, no.150, p.113-36.

Emmons. Geology of New York, pt2, comprising the Survey of the Second Geological District. 1842. 10+437p. 17pl. sq. Q.

Geological survey, third district. Conrad. Annual Report on the Geological Survey of the Third District. Assembly doc. 1837, no.161, p.155-86 (ed. 2, p.157-88).

Vanuxem. Annual Report on Geological Survey of 3d District. Assembly doc. 1838, no.200, p.253-86; 1839, no.275, p.241-85; 1840, no.50, p.355-88; 1841, no.150, p.137-47.

Vanuxem. Geology of New York, pt3, comprising the Survey of the Third Geological District. 1842. 306p. sq. Q.

Geological survey, fourth district. Hall. Annual Report of the Fourth Geological District of New York. Assembly doc. 1838, no.200, p.287-381; 1839, no.275, p.287-347; 1840, no.50, p.389-480; 1841, no.150, p.149-79.

Hall. Geology of New York, pt4, comprising the Survey of the Fourth Geological District. 1843. 22+683p. 19pl. map. sq. Q.

Geological survey, fourth district (*continued*)

Hall. Corrected List of the Fossils described in the Report of the 4th Geological District of New York. Mus. rep. 12 (for 1858) 1859. p.87-92.

Vanuxem. Annual Report on the Geological Survey of the Fourth District. Assembly doc. 1837, no.161, p.187-212 (ed. 2, p.189-214).

Geological surveys. Eaton. Geological and Agricultural Survey of the District Adjoining the Erie Canal. 1824. 163p.

Hall. Geological Surveys East of the Mississippi. Geol. N. Y. pt4. 1843. p.22-23.

Geology. Clarke. List of Publications relating to the Geology and Palaeontology of New York, 1876-93. Geol. rep. 13 (for 1893) 1894. p.559-97. *Same*, Mus. rep. 47 (for 1893) 1894. p.753-91.

Gaylord. Geology as connected with Agriculture. Ag. Soc. Trans. 1 (for 1841) 1842. p.273-98.

Hall. Geologic and Palaeontologic Knowledge at Beginning of Natural History Survey. Geol. N. Y. pt4. 1843. p.4-11.

Hall. Geological Formations, Theory of Mountain Elevation, Metamorphic Rocks, and Other Geological Phenomena. Pal. N. Y. 1859. v.3, *introduction*. 96p.

Hall. Reports as Geologist and Paleontologist. Geol. rep. 1-17 (for 1881-97) 1884-99. Mus. rep. 38-51 (for 1884-97) 1885-99.

For page references, see List of publications, p.257.

Geol. rep. 18 edited by J. M. Clarke, acting state geologist and paleontologist.

For later reports of geologist, see Merrill, F. J. H.; of paleontologist, see Clarke, J. M.

See also note, p.238.

Lincklaen. Guide to the Geology of New York and to the State Geological Cabinet. Mus. rep. 14 (for 1860) 1861. p.17-84. illus.

Merrill. Guide to the Study of the Geological Collections of the New York State Museum. Mus. bul. 19. 1898. p.105-262. 119pl. (phot.) map. *Same*, Mus. rep. 51 (for 1897) 1899. 1:105-262. 119pl. (phot.) map.

Relief map of the State of New York showing the boundaries of the geologic system, 33x43cm.

Merrill. Geologic Text-books and Books of Reference. Mus. bul. 19. 1898. p.236-38. *Same*, Mus. rep. 51 (for 1897) 1899. 1:236-38.

Merrill. Reports as Geologist and Director of Museum. Geol. rep. 19-20. *Same*, Mus. rep. 53-54 (for 1899-1900) 1901-2.

For page references, see List of publications, p.261-62.

Norton. Elements of Scientific Agriculture. Ag. Soc. Trans. 9 (for 1849) 1850. p.602-735.

p.728-35 on applications of geology to agriculture.

References to Various Essays and Writings on the Natural History of New York. Mus. rep. 3 *rer. ed.* (for 1849) 1850. p.159; 4 (for 1850) 1851. p.116; 5 (for 1851) 1852. p.56.

Roberts. On the Advantages of Geology to Agriculture. Ag. Soc. Trans. 8 (for 1848) 1849. p.362-65.

Tarr. Laboratory Methods of Instruction in Geology and Physical Geography. Regents rep. 108 (for 1894) 1895. 2:992-1011.

Winchell. Geology and Culture. Regents rep. 102 (for 1888) 1889. p.69-85.

See also Economic geology; Geologic map of New York; Geological survey; New York series; also names of rock formations and localities.

Georgian. Clarke & Schuchert. Georgian. See New York series.

Merrill. Georgian. Mus. bul. 19. 1898. p.143-44. *Same*, Mus. rep. 51 (for 1897) 1899. 1:143-44.

Gibbsite. Beck. Gibbsite. Min. rep. (for 1836) 1837. p.58-59 (ed. 2, p.60-61). Min. N. Y. 1842. p.320. Mus. rep. 3 *rer. ed.* (for 1849) 1850. p.136.

Whitlock. Gibbsite. Mus. bul. 58. 1902. p.78.

Gieseckite. Hunt. Gieseckite. Mus. rep. 21 (for 1867) 1871. p.79-80.

- Gipsy moth.** Felt. Gipsy Moth. Ent. rep. 16 (for 1900) 1901. p.955-62 (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:955-62.
- Lintner. Gipsy Moth. Ent. rep. 9 (for 1892) 1893. p.422-26. *Same*, Mus. rep. 46 (for 1892) 1893. p.422-26.
- Glacial deposits,** *see* Drift; Pleistocene; Quaternary system.
- Glacial lakes.** Fairchild. Glacial Lakes. Geol. rep. 20 (for 1900) 1902. p.135-39. *Same*, Mus. rep. 54 (for 1900) 1902. 1:135-39.
Map of the shore line and area of Lake Iroquois, 60x41.5cm.
- Fairchild. Latest and Lowest Pre-Iroquois Channels between Syracuse and Rome. Geol. rep. 21 (for 1901). *In press*.
- Grabau. Lacustrine Period. Mus. bul. 45. 1901. p.57-65. *Same*, Mus. rep. 54 (for 1900) 1902. 4:57-65.
- Glass manufacture.** Ries. Glass Making. Geol. rep. 17 (for 1897) 1899. p.385. *Same*, Mus. rep. 51 (for 1897) 1899. 2:385.
— — — Mus. bul. 44. 1901. p.653-54. *Same*, Mus. rep. 54 (for 1900) 1902. 3:653-54.
- Glass sand.** Merrill. Glass Sand. Mus. bul. 15. 1895. p.552. *Same*, Mus. rep. 48 (for 1894) 1895. 1:552 (2d paging).
— — — Mus. bul. 19. 1898. p.225. *Same*, Mus. rep. 51 (for 1897) 1899. 1:225.
- Glauber's salt.** Beck. Glauber's Salt (sulphate of soda). Min. rep. (for 1838) 1839. p.16. Min. N. Y. 1842. p.196-97.
- Glucina.** Beck. Glucina. Min. N. Y. 1842. p.374-77. Mus. rep. 3, *rev. ed.* (for 1849) 1850. p.145-46.
- Gneiss.** Conrad. Gneiss. Geol. rep. 3d dist. (for 1836) 1837. p.158-59 (ed. 2, p.160-61).
Cushing. Gneisses of Clinton County. Geol. rep. 13 (for 1893) 1894. p.475. *Same*, Mus. rep. 47 (for 1893) 1894. p.669.
— — — Geol. rep. 15 (for 1895) 1897. p.506-73. *Same*, Mus. rep. 49 (for 1895) 1898. 2:506-73.
— — — Geol. rep. 19 (for 1899) 1901. p.42. *Same*, Mus. rep. 53 (for 1899) 1901 1:r42.
- Cushing. Gneisses of Adirondacks. Geol. rep. 16 (for 1896) 1899. p.8-12. *Same*, Mus. rep. 50 (for 1896) 1899. 2:8-12.
- Cushing. Gneisses of Franklin County. Geol. rep. 18 (for 1898) 1899. p.89-99. *Same*, Mus. rep. 52 (for 1898) 1900. 2:89-99.
- Cushing. Gneisses of Franklin and St Lawrence Counties. Geol. rep. 20 (for 1900) 1902. p.125-82. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r25-82. Including analyses.
- Eckel. Quarries in Southeastern New York. Geol. rep. 20 (for 1900) 1902. p.151-61. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r151-61.
- Emmons. Gneiss, Hornblende and Granular Limestone. Geol. rep. 2d dist. (for 1836) 1837. p.113-16 (ed. 2, p.115-18).
- Emmons. Metals in Gneiss. Geol. rep. 2d dist. (for 1836) 1837. p.148 (ed. 2, p.150).
- Emmons. Gneiss. Geol. N. Y. pt2. 1842. p.75-79.
- Emmons. Gneiss of Essex County. Geol. rep. 2d dist. (for 1837) 1838. p.226. Geol. N. Y. pt2. 1842. p.229-31.
- Emmons. Gneiss of St Lawrence County. Geol. rep. 2d dist. (for 1837) 1838. p.194-95. Geol. N. Y. pt2. 1842. p.340-41.
- Finlay. Field Work in the Town of Minerva, Essex Co. Geol. rep. 20 (for 1900) 1902. p.96-102. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r96-102.
- Gale. Granite and Gneiss of New York County. Geol. rep. 1st dist. (for 1838) 1839. p.192.
- Kemp. Gneisses of Essex County. Geol. rep. 13 (for 1893) 1894. p.444-72. *Same*, Mus. rep. 47 (for 1893) 1894. p.638-66.

Gneiss (*continued*)

- — Geol. rep. 15 (for 1895) 1897. p.579-608. *Same*, Mus. rep. 49 (for 1895) 1898. 2:579-608.
- Kemp. Geology of Moriah and Westport Townships, Essex County. Mus. bul. 14. 1895. p.325-40. *Same*, Mus. rep. 48 (for 1894) 1895. 1:325-40 (2d paging).
- Kemp. Gneiss of Lake Placid Region. Mus. bul. 21. 1898. p.55-57, 61. *Same*, Mus. rep. 52 (for 1898) 1900. 1:55-57, 61.
- Kemp & Newland. Gneisses of Adirondacks. Geol. rep. 17 (for 1897) 1899. p.510-52. *Same*, Mus. rep. 51 (for 1897) 1899. 2:510-52.
- Kemp, Newland & Hill. Gneisses of Adirondacks. Geol. rep. 18 (for 1898) 1899. p.142-62. *Same*, Mus. rep. 52 (for 1898) 1900. 2:142-62.
- Kemp & Hill. Gneiss of Fulton County. Geol. rep. 19 (for 1899) 1901. p.r29-32. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r29-32.
- Kemp & Hill. Gneiss of Montgomery and Fulton Counties. Geol. rep. 19 (for 1899) 1901. p.r33-35. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r33-35.
- Kemp & Hill. Gneiss of Saratoga County. Geol. rep. 19 (for 1899) 1901. p.r28-29. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r28-29.
- Kemp & Hill. Gneiss of Warren County. Geol. rep. 19 (for 1899) 1901. p.r23, r25, r28. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r23, r25, r28.
- Mather. Gneiss of Long Island. Geol. rep. 1st dist. (for 1837) 1838. p.138.
- Mather. Granite, Gneiss and Granular Quartz of Columbia and Dutchess Counties. Geol. rep. 1st dist. (for 1837) 1838. p.172-73.
- Mather. Gneiss of New York, Westchester and Putnam Counties. Geol. rep. 1st dist. (for 1838) 1839. p.85-86. Geol. N. Y. pt.1. 1843. p.529-31.
- Mather. Gneiss of Rockland and Orange Counties. Geol. rep. 1st dist. (for 1838) 1839. p.128-29. Geol. N. Y. pt.1. 1843. p.537-38.
- Merrill. Directory of Quarrymen. Mus. bul. 15. 1895. p.452. *Same*, Mus. rep. 48 (for 1894) 1895. 1:452 (2d paging).
- Merrill. Definition. Mus. bul. 19. 1898. p.125. *Same*, Mus. rep. 51 (for 1897) 1899. 1:125.
- Prosser & Cumings. Gneisses of Little Falls. Geol. rep. 15 (for 1895) 1897. p.632-33. *Same*, Mus. rep. 49 (for 1895) 1898. 2:632-33.
- Ries. Gneisses of Orange County. Geol. rep. 15 (for 1895) 1897. p.399-400, 413-14, 446-56. *Same*, Mus. rep. 49 (for 1895) 1898. 2:399-400, 413-14, 446-56.
- Smock. Gneiss. Mus. bul. 3. 1888. p.10-12; 10. 1890. p.204.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.374-75. *Same*, Mus. rep. 48 (for 1894) 1895. 1:374-75 (2d paging).
- — *revised* by Merrill. Mus. bul. 19. 1898. p.183-84. *Same*, Mus. rep. 51 (for 1897) 1899. 1:183-84.
- Smock. Quarries. Mus. bul. 3. 1888. p.25-36; 10. 1890. p.228-34.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.375-80. *Same*, Mus. rep. 48 (for 1894) 1895. 1:375-80 (2d paging).
- Smyth. Gneiss of St Lawrence and Jefferson Counties. Geol. rep. 13 (for 1893) 1894. p.493-98. *Same*, Mus. rep. 47 (for 1893) 1894. p.687-92.
- Smyth. Gneisses of St Lawrence County. Geol. rep. 15 (for 1895) 1897. p.485-97. *Same*, Mus. rep. 49 (for 1895) 1898. 2:485-97.
- Smyth. Origin of the Gneisses. Geol. rep. 15 (for 1895) 1897. p.485-97. *Same*, Mus. rep. 49 (for 1895) 1898. 2:485-97.
- Smyth. Gneisses of Adirondacks. Geol. rep. 17 (for 1897) 1899. p.471-97. *Same*, Mus. rep. 51 (for 1897) 1899. 2:471-97.
- — Geol. rep. 18 (for 1898) 1899. p.132-35. *Same*, Mus. rep. 52 (for 1898) 1900. 2:132-35.

Gneiss (*continued*)

- Smyth. Gneiss in the Vicinity of the St Lawrence River. Geol. rep. 19 (for 1899) 1901. p.86-98. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r86-98.
- Vanuxem. Gneiss. Geol. rep. 3d dist. (for 1837) 1838. p.282. Geol. N. Y. pt3. 1842. p.17-21.
- Vanuxem. Gneiss in Herkimer County. Geol. N. Y. pt3. 1842. p.255.
- Vanuxem. Gneiss in Lewis County. Geol. N. Y. pt3. 1842. p.265.
- Vanuxem. Gneiss in Montgomery County. Geol. rep. 3d dist. (for 1837) 1838. p.262-63. Geol. N. Y. pt3. 1842. p.249.
- Watson. Gneiss of Essex County. Ag. Soc. Trans. 12 (for 1852) 1853. p.779.
- See also* Crystalline rocks; Fordham gneiss; Primary rocks; Syenites; Yonkers gneiss.
- Göthite.** Whitlock. Göthite. Mus. bul. 58. 1902. p.76-77.
- Gold.** Beck. Gold. Min. N. Y. 1842. p.452.
- Hunt. Gold. Mus. rep. 21 (for 1867) 1871. p.91-92.
- Nevius. The Sacandaga Mining and Milling Co. and the Sutphen Process. Mus. rep. 52 (for 1898) 1900. 1:r82-87. pl. (phot.)
- Whitlock. Gold. Mus. bul. 58. 1902. p.49.
- Goniatite limestone,** *see* Agoniatite limestone.
- Goniatitidae,** *see* Cephalopoda (paleozoic).
- Gould collection.** Gould Collection of Shells. Mus. rep. 21 (for 1867) 1871. p.9.
- List of the Unionidae of the Gould Collection. Mus. rep. 35 (for 1881) 1884. p.68-81.
- Gould types of Mollusca.** Gould Types of Mollusca in State Museum Collection. Mus. rep. 27 (for 1873) 1875. p.47-55.
- Grain moth.** Lintner. Grain Moth. Ent. rep. 2 (for 1882 and 1883) 1885. p.102-10.
- Ent. rep. 10 (for 1894) 1895. p.377-86. *Same*, Mus. rep. 48 (for 1894) 1895. 1:377-86 (1st paging).
- Grains.** Felt. Insects Infesting. Ent. rep. 17 (for 1901) 1902. p.844-46. (Mus. bul. 53).
- Ent. rep. 18 (for 1902). p.106-8. *In press*.
- Fitch. Insects Infesting Grains. Ag. Soc. Trans. 15 (for 1855) 1856. p.509-54 (rep. 2. sep. ed. p.277-322).
- Ag. Soc. Trans. 20 (for 1860) 1861. p.745-868 (rep.6. sep. ed. p.3-126).
- Ag. Soc. Trans. 21 (for 1861) 1862. p.813-59 (rep.7. sep. ed. p.127-73).
- Ag. Soc. Trans. 22 (for 1862) 1863. p.685-86 (rep.8. sep. ed. p.203-4).
- Granite.** Cushing. Granite of Adirondacks. Geol. rep. 16 (for 1896) 1899. p.12. *Same*, Mus. rep. 50 (for 1896) 1899. 2:12.
- Cushing. Granites of Franklin County. Geol. rep. 18 (for 1898) 1899. p.114-17. *Same*, Mus. rep. 52 (for 1898) 1900. 2:114-17.
- Eckel. Quarries in Southeastern New York. Geol. rep. 20 (for 1900) 1902. p.r151-65. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r151-65.
- Emmons. Metals in Granite. Geol. rep. 2d dist. (for 1836) 1837. p.148 (ed. 2, p.150).
- Emmons. Granite. Geol. N. Y. pt2. 1842. p.23-26.
- Emmons. Granite of Essex County. Geol. rep. 2d dist. (for 1836) 1837. p.109-13 (ed. 2, p.111-15); (for 1837) 1838. p.220-23. Geol. N. Y. pt2. 1842. p.225.

Granite (*continued*)

- Emmons. Granite of St Lawrence County. Geol. rep. 2d dist. (for 1837) 1838. p.195-96. Geol. N. Y. pt2. 1842. p.337-40.
- Emmons. Granite of Warren County. Geol. N. Y. pt2. 1842. p.173-75.
- Fitch. Granite of Washington County. Ag. Soc. Trans. 9 (for 1849) 1850. p.822.
- Gale. Granite and Gneiss of New York County. Geol. rep. 1st dist. (for 1838) 1839. p.192.
- Hall. Granites, including Sienites, Gneiss, or Gneissoid and Sienitic Rocks, their Geological Position and Geographical Distribution. Mus. rep. 39 (for 1885) 1886. p.190-93.
- Kemp. Granite of Lake Placid Region. Mus. bul. 21. 1898. p.54-55. *Same*, Mus. rep. 52 (for 1898) 1900. 1:54-55.
- Mather. Granite of Staten Island. Geol. rep. 1st dist. (for 1837) 1838. p.139.
- Mather. Granite, Gneiss and Granular Quartz of Columbia and Dutchess Counties. Geol. rep. 1st dist. (for 1837) 1838. p.172-73.
- Mather. Granite of New York, Westchester, Dutchess and Putnam Counties. Geol. rep. 1st dist. (for 1838) 1839. p.80-85. Geol. N. Y. pt1. 1843. p.525-28.
- Mather. Granite of Rockland and Orange Counties. Geol. rep. 1st dist. (for 1838) 1839. p.127-28. Geol. N. Y. pt1. 1843. p.535-36.
- Merrill. Directory of Quarrymen. Mus. bul. 15. 1895. p.451-52. *Same*, Mus. rep. 48 (for 1894) 1895. 1:451-52 (2d paging).
- Merrill. Granites of Southeastern New York. Mus. rep. 50 (for 1896) 1898. 1:30 (1st paging).
- Merrill. Road Materials. Mus. bul. 17. 1897. p.104-5. *Same*, Mus. rep. 50 (for 1896) 1898. 1:104-5 (2d paging).
- — Mus. bul. 19. 1898. p.204-5. *Same*, Mus. rep. 51 (for 1897) 1899. 1:204-5.
- Ries. Granites of Orange County. Geol. rep. 15 (for 1895) 1897. p.405-10. *Same*, Mus. rep. 49 (for 1895) 1898. 2:405-10.
- Smock. Granite. Mus. bul. 3. 1888. p.9-12; 10. 1890. p.202-6.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.372-75. *Same*, Mus. rep. 48 (for 1894) 1895. 1:372-75 (2d paging).
- — *revised* by Merrill. Mus. bul. 19. 1898. p.181-84. *Same*, Mus. rep. 51 (for 1897) 1899. 1:181-84.
- Smock. Quarries. Mus. bul. 3. 1888. p.25-36; 10. 1890. p.228-34.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.375-80. *Same*, Mus. rep. 48 (for 1894) 1895. 1:375-80 (2d paging).
- Smock. Microscopic Structure. Mus. bul. 10. 1890. p.360-61.
- Smock. Tests; Durability; Causes of Decay. Mus. bul. 10. 1890. p.364-89.
- Smyth. Granite of St Lawrence and Jefferson Counties. Geol. rep. 13 (for 1893) 1894. p.493, 494. *Same*, Mus. rep. 47 (for 1893) 1894. p.687, 688.
- Vanuxem. Gneiss and Granite. Geol. N. Y. pt3. 1842. p.17-21.
- Vanuxem. Gneiss and Granite in Herkimer County. Geol. N. Y. pt3. 1842. p.255.
- Vanuxem. Gneiss and Granite in Lewis County. Geol. N. Y. pt3. 1842. p.265.
- Vanuxem. Gneiss and Granite in Oneida County. Geol. N. Y. pt3. 1842. p.259.
- See also* Crystalline rocks.
- Grape-seed fly. Lintner. Grape-seed Fly. Mus. rep. 30 (for 1876) 1878. p.136-40.

- Grapevine beetle.** Lintner. Light-loving Grapevine Beetle. Ent. rep. 10 (for 1894) 1895. p.408-10. *Same*, Mus. rep. 48 (for 1894) 1895. 1:408-10 (1st paging).
- Grapevine plume moth.** Fitch. Grapevine Plume Moth. Ag. Soc. Trans. 14 (for 1854) 1855. p.843-47 (rep.1. sep. ed. p.139-43).
Lintner. Grapevine Plume Moth. Ent. rep. 12 (for 1896) 1897. p.218-22. *Same*, Mus. rep. 50 (for 1896) 1898. 1:218-22 (1st paging).
- Grapevine root worm.** Felt. Grapevine Root Worm. Mus. bul. 59. 1902. p.49-84. illus. 1pl.(lith.) 5pl.(phot.)
- Graphite.** Beck. Graphite or Plumbago. Min. rep. (for 1838) 1839. p.14-15. Min. N. Y. 1842. p.96-98, 186-87. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.118.
Clinton. Graphite of Ticonderoga. Alb. Inst. Trans. 1830. 1:233-35.
Emmons. Black Lead: Graphite. Geol. rep. 2d dist. (for 1838) 1839. p.220-21.
Emmons. Graphite or Black Lead in Warren County. Geol. N. Y. pt2. 1842. p.177.
Fitch. Graphite of Washington County. Ag. Soc. Trans. 9 (for 1849) 1850. p.823.
Hunt. Graphite or Plumbago. Mus. rep. 21 (for 1867) 1871. p.92-97.
Mather. Plumbago in Dutchess County. Geol. rep. 1st dist. (for 1837) 1838. p.176.
Merrill. Graphite. Mus. bul. 15. 1895. p.552. *Same*, Mus. rep. 48 (for 1894) 1895. 1:552 (2d paging).
—— — Mus. bul. 19. 1898. p.224. *Same*, Mus. rep. 51 (for 1897) 1899. 1:224.
Nason. Graphite. Mus. bul. 4. 1888. p.9, 13, 15.
Vanuxem. Plumbago in Lewis County. Geol. N. Y. pt3. 1842. p.267.
Watson. Graphite of Essex County. Ag. Soc. Trans. 12 (for 1852) 1853. p.778-79, 786-87.
Whitlock. Graphite. Mus. bul. 58. 1902. p.47-48.
- Graptolite shales**, *see* Normanskill shales; Utica shale.
- Graptolitidae**, *see* Hydrozoa (paleozoic).
- Grasshoppers**, *see* Orthoptera.
- Gravels.** Bishop. Sand and Gravel of Erie County. Geol. rep. 15 (for 1895) 1897. p.345. *Same*, Mus. rep. 49. (for 1895) 1898. 2:345.
Nason. Gravels, Sands and Clays of Albany County. Geol. rep. 13 (for 1893) 1894. p.266-77. *Same*, Mus. rep. 47 (for 1893) 1894. p.460-71.
See also Pleistocene.
- Gray sandstone.** Emmons. Grey Sandstone. Geol. N. Y. pt2. 1842. p.123-26.
Emmons. Grey Sandstone of Jefferson County. Geol. N. Y. pt2. 1842. p.406-7.
Hall. Oneida Conglomerate and Grey Sandstone. Geol. N. Y. pt4. 1843. p.31.
Vanuxem. Gray Sandstone of Cayuga. Geol. rep. 3d dist. (for 1838) 1839. p.246.
Vanuxem. Grey Sandstone of Oswego. Geol. N. Y. pt3. 1842. p.67-70.
Vanuxem. Grey Sandstone in Lewis County. Geol. N. Y. pt3. 1842. p.265, 269.
Vanuxem. Grey Sandstone in Oneida County. Geol. N. Y. pt3. 1842. p.261.
Vanuxem. Grey Sandstone in Oswego County. Geol. N. Y. pt3. 1842. p.270.

- Gray sparry crinoidal limestone.** Conrad. Gray Sparry Crinoidal Limestone. Geol. rep. 3d dist. (for 1836) 1837. p.180-81 (ed. 2, p.182-83).
 Vanuxem. Gray Sparry Crinoidal Limestone. Geol. rep. 3d dist. (for 1838) 1839. p.274-75.
See also Onondaga limestone.
- Gray sparry limestone (Birdseye).** Conrad. Gray Sparry Limestone of the Mohawk Valley. Geol. rep. 3d dist. (for 1836) 1837. p.162-63 (ed. 2, p.164-65).
See also Birdseye limestone.
- Graywacke.** Horton. Graywacke of Orange County. Geol. rep. 1st dist. (for 1838) 1839. p.145-47.
 Morse. Great Greywacke Region of the State of New York. Alb. Inst. Trans. 1829. 1:84-85.
See also Hamilton group; Hudson river group; Marcellus shales; Onondaga salt group; Utica shale.
- Green shales.** Vanuxem. Green Shale and its Sandstone. Geol. rep. 3d dist. (for 1837) 1838. p.257, 283-84.
See also Frankfort slates; Hudson river group.
- Greene county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.67-68.
 Dickinson. Bluestone Quarries. Mus. bul. 61. *In press*.
 Felt. Entomological Reports from. Ent. rep. 15 (for 1899). 1900. p.560. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:560.
 ——— Ent. rep. 16 (for 1900) 1901. p.1010-11. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1010-11.
 ——— Ent. rep. 17 (for 1901) 1902. p.784. (Mus. bul. 53).
 ——— Ent. rep. 18 (for 1902). p.148. *In press*.
 Marshall. Report on a Deposit of Marl and Peat in the Town of New Baltimore. Mus. rep. 45 (for 1891) 1892. p.46-52.
- Mather.** Economical Geology. Geol. rep. 1st dist. (for 1839) 1840. p.213-58.
- Mather.** Hudson River Group. Geol. N. Y. pt1. 1843. p.372-74.
- Mather.** Dip and Strike of Rocks. Geol. N. Y. pt1. 1843. p.620.
- Merrill.** Hudson River Bluestone Quarries. Mus. bul. 15. 1895. p.461. *Same*, Mus. rep. 48 (for 1894) 1895. 1:461 (2d paging).
- Prosser.** Hamilton, Sherburne and Ithaca Formations. Geol. rep. 17 (for 1897) 1899. p.264-88. *Same*, Mus. rep. 51 (for 1897) 1899. 2:264-88.
- Ries.** Brick Yards. Mus. bul. 12. 1895. p.188, 189-90, 246. *Same*, Mus. rep. 48 (for 1894) 1895. 1:188, 189-90, 246 (2d paging).
 ——— Mus. bul. 35. 1900. p.702-3, 704. *Same*, Mus. rep. 54 (for 1900) 1902. 2:702-3, 704.
- Ries.** Limestones. Geol. rep. 17 (for 1897) 1899. p.437. *Same*, Mus. rep. 51 (for 1897) 1899. 2:437.
 ——— *revised*. Mus. bul. 44. 1901. p.786-87. *Same*, Mus. rep. 54 (for 1900) 1902. 3:786-87.
- Smock.** Building Stone Quarries. Mus. bul. 3. 1888. p.52-54; 10. 1890. p.259.
 ——— *revised* by Merrill. Mus. bul. 15. 1895. p.394. *Same*, Mus. rep. 48 (for 1894) 1895. 1:394 (2d paging).
- Greenockite.** Whitlock. Greenockite. Mus. bul. 58. 1902. p.55.
- Greenstone.** Emmons. Trap; Greenstone Trap. Geol. N. Y. pt2. 1842. p.82-84.
 Emmons. Greenstone. Ag. N. Y. 1846. 1:42.
 Gale. Greenstone of New York County. Geol. rep. 1st dist. (for 1838) 1839. p.190-91.
 Mather. Greenstone. Geol. N. Y. pt1. 1843. p.532-33, 539-40.

- Grenville series.** Cushing. Grenville Series. Geol. rep. 16 (for 1896) 1899. p.10-11. *Same*, Mus. rep. 50 (for 1896) 1899. 2:10-11.
- — — Geol. rep. 18 (for 1898) 1899. p.92-95. *Same*, Mus. rep. 52 (for 1898) 1900. 2:92-95.
- — — Geol. rep. 20 (for 1900) 1902. p.r79-81. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r79-81.
- Grey band of Rochester,** *see* Oneida conglomerate.
- Grit slate.** Conrad. Grit Slate. Pal. rep. (for 1840) 1841. p.31.
See also Schoharie grit.
- Guelph formation.** Clarke & Schuchert. Guelph Dolomite. *See* New York series.
- Clarke & Ruedemann. Guelph Formation and Fauna in Western New York. Mus. mem. 5. *In press*.
- Ries. Guelph Limestone. Geol. rep. 17 (for 1897) 1899. p.364. *Same*, Mus. rep. 51 (for 1897) 1899. 2:364.
- — — Mus. bul. 44. 1901. p.759. *Same*, Mus. rep. 54 (for 1900) 1902. 3:759.
- Ries. Guelph Limestone of Monroe County. Geol. rep. 17 (for 1897) 1899. p.441-42. *Same*, Mus. rep. 51 (for 1897) 1899. 2:441-42.
- — — *revised*. Mus. bul. 44. 1901. p.794, 795-96. *Same*, Mus. rep. 54 (for 1900) 1902. 3:794, 795-96.
- Ries. Guelph Limestone of Orleans County. Mus. bul. 44. 1901. p.810. *Same*, Mus. rep. 54 (for 1900) 1902. 3:810.
- Gypseous deposits.** Conrad. Gypseous Shales. Pal. rep. (for 1838) 1839. p.63; (for 1839) 1840. p.202; (for 1840) 1841. p.31.
- Hall. Gypseous Marls and Slates. Geol. rep. 4th dist. (for 1837) 1838. p.303-7.
- Vanuxem. Gypseous Deposit. Geol. rep. 3d dist. (for 1838) 1839. p.252-61. Geol. N. Y. pt3. 1842. p.98-107, 278-83, 287.
- See also* Onondaga salt group; Salina group.
- Gypseous marl.** Hall. Gypseous Marl in Wayne County. Geol. rep. 4th dist. (for 1837) 1838. p.320-21. Geol. N. Y. pt4. 1843. p.418.
See also Onondaga salt group.
- Gypsum.** Beck. Gypsum. Min. rep. (for 1838) 1839. p.31-37. Min. N. Y. 1842. p.61-67, 237-38. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.127.
- Conrad. Gypsum. Geol. rep. 3d dist. (for 1836) 1837. p.179 (ed. 2, p.181).
- Hall. Gypsum; Plaster, in Monroe County. Geol. rep. 4th dist. (for 1837) 1838. p.340-42. Geol. N. Y. pt4. 1843. p.430-31.
- Hall. Gypsum in Ontario County. Geol. rep. 4th dist. (for 1838) 1839. p.304-6. Geol. N. Y. pt4. 1843. p.453-55, 457.
- Hall. Gypsum in Seneca County. Geol. rep. 4th dist. (for 1838) 1839. p.291-93. Geol. N. Y. pt4. 1843. p.449-50.
- Hall. Gypsum in Wayne County. Geol. rep. 4th dist. (for 1837) 1838. p.325-26. Geol. N. Y. pt4. 1843. p.421.
- Luther. Sulphate of Lime or Gypsum. Geol. rep. 15 (for 1895) 1897. p.266-67. *Same*, Mus. rep. 49 (for 1895) 1898. 2:266-67.
- Mather. Sulphates of Lime, Alumina, etc. Geol. N. Y. pt1. 1843. p.83-85.
- Merrill. Salt and Gypsum Industries of New York. Mus. bul. 11. 1893. 89p. 12pl. (phot.) 2maps, 11tab.
- Map of New York showing salt wells and mines and gypsum quarries, 38-55cm.
Map of western salt field of New York, 52.5x32.5cm.
Chart of well sections.
- — — abstract. Mus. bul. 15. 1895. p.545-51. *Same*, Mus. rep. 48 (for 1894) 1895. 1:545-51 (2d paging).

Gypsum (*continued*)

- Merrill. Gypsum; Directory of Producers. Mus. bul. 15. 1895. p.550-51. *Same*, Mus. rep. 48 (for 1894) 1895. 1:550-51 (2d paging).
- Merrill. Gypsum. Mus. bul. 19. 1898. p.224. *Same*, Mus. rep. 51 (for 1897) 1899. 1:224.
- Parsons. Recent Developments in the Gypsum Industry in New York State. Geol. rep. 20 (for 1900) 1902. p.177-83. *Same*, Mus. rep. 54 (for 1900) 1902. 1:177-83.
- Whitlock. Gypsum. Mus. bul. 58. 1902. p.126-27.
- Gypsum group**, *see* Onondaga salt group.
- Halite**, *see* Salt.
- Halotrichite**. Beck. Alumina-sulphate of Iron. Min. N. Y. 1842. p.400.
- Hamilton county**. Emmons. Hamilton County. Geol. rep. 2d dist. (for 1838) 1839. p.224-30. Geol. N. Y. pt2. 1842. p.414-17.
- Emmons. Survey in Interior of Hamilton, Essex and Franklin Counties. Geol. rep. 2d dist. (for 1840) 1841. p.113-33.
- Kemp & Newland. Preliminary Report on the Geology of Washington, Warren and Parts of Essex and Hamilton Counties. Geol. rep. 17 (for 1897) 1899. p.499-553. pl. (phot.) maps (uncolored). *Same*, Mus. rep. 51 (for 1897) 1899. 2:499-553. pl. (phot.) maps (uncolored).
- Kemp, Newland & Hill. Preliminary Report on the Geology of Hamilton, Warren and Washington Counties. Geol. rep. 18 (for 1898) 1899. p.137-62. maps (uncolored). *Same*, Mus. rep. 52 (for 1898) 1900. 2:137-62. maps (uncolored).
- Hamilton group**. Bishop. Hamilton Group of Erie County. Geol. rep. 15 (for 1895) 1897. p.315-20, 390. *Same*, Mus. rep. 49 (for 1895) 1898. 2:315-20, 390.
- Clarke. Hamilton Group in Ontario County. Geol. rep. 4 (for 1884) 1885. p.11-19.
- Clarke. Annelid Teeth from the Lower Portion of the Hamilton Group and from the Naples Shales of Ontario County, N. Y. Geol. rep. 6 (for 1886) 1887. p.30-32, 1pl.
- Delafield. Hamilton Group of Seneca County. Ag. Soc. Trans. 10 (for 1850) 1851. p.452-57.
- Dickinson. Quarries of Bluestones and other Sandstones. Mus. bul. 61. *In press*.
- Evans. Hamilton Group of Madison County. Ag. Soc. Trans. 11 (for 1851) 1852. p.699.
- Geddes. Hamilton Group of Onondaga County. Ag. Soc. Trans. 19 (for 1859) 1860. p.253.
- Grabau. Faunas of the Hamilton Group of Eighteen-mile Creek and Vicinity. Geol. rep. 16 (for 1896) 1899. p.227-339. pl. (phot.) 3tab. map. *Same*, Mus. rep. 50 (for 1896) 1899. 2:227-339. pl. (phot.) 3tab. map.
Map of the township of Hamburg, Erie co. (uncolored) 13x24.5cm.
- Hall. Hamilton Group. Geol. N. Y. pt4. 1843. p.184-211. Pal. N. Y. 1859. 3:45-48.
- Hall. Hamilton Group in Erie County. Geol. rep. 4th dist. (for 1840) 1841. p.162-64. Geol. N. Y. pt4. 1843. p.472-73.
- Hall. Hamilton Group in Genesee County. Geol. rep. 4th dist. (for 1839) 1840. p.429. Geol. N. Y. pt4. 1843. p.467.
- Hall. Hamilton Group in Livingston County. Geol. rep. 4th dist. (for 1839) 1840. p.421. Geol. N. Y. pt4. 1843. p.462.
- Hall. Hamilton Group in Ontario County. Geol. rep. 4th dist. (for 1838) 1839. p.312-13. Geol. N. Y. pt4. 1843. p.457.
- Hall. Hamilton Group in Seneca County. Geol. rep. 4th dist. (for 1838) 1839. p.296-300. Geol. N. Y. pt4. 1843. p.451.

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- Hall. Hamilton Group in Tompkins County. Geol. N. Y. pt4. 1843. p.475.
- Hall. Hamilton Group in Yates County. Geol. rep. 4th dist. (for 1838) 1839. p.315-17. Geol. N. Y. pt4. 1843. p.458.
- Hall. Organic Remains. Geol. N. Y. pt4. 1843. p.195-210. Mus. rep. 10 (for 1856) 1857. p.135-69, 171-80.
- Hall. Descriptions of New Species of Fossils from the Hamilton Group of Western New York, with notices of others from the same horizon in Iowa and Indiana. Mus. rep. 13 (for 1859) 1860. p.76-94. illus.; 15 (for 1861) 1862. p.181-91, 195.
- Hall. Descriptions of New Species of Fossils from the Upper Helderberg, Hamilton and Chemung Groups, with observations upon previously described species. Mus. rep. 14 (for 1860) 1861. p.99-109; 15 (for 1861) 1862. p.27-155. illus. 11pl.
- Hall. Descriptions of New Species of Brachiopoda from the Upper Helderberg, Hamilton and Chemung Groups. Mus. rep. 16 (for 1862) 1863. p.19-37.
- Hall. On the Occurrence of Crustacean Remains of the Genera *Ceraticaris* and *Dithyrocaris*, with a notice of some new species from the Hamilton group and Genesee slate. Mus. rep. 16 (for 1862) 1863. p.71-75.
- Hall. Fossil Brachiopoda of the Upper Helderberg, Hamilton, Portage and Chemung Groups. Pal. N. Y. 1867. v.4. 428p. 99pl.
- Hall. Illustrations of Devonian Fossils of the Upper Helderberg, Hamilton and Chemung Groups. 1876.
- Hall. Gasteropoda, Pteropoda, and Cephalopoda of the Upper Helderberg, Hamilton, Portage and Chemung Groups. Pal. N. Y. 1879. v.5. pt2. 492p.; (v.1, text, v.2, 120pl.); 1888. v.7, supplement. 42p. 18pl.
- Hall. Bryozoans of the Upper Helderberg and Hamilton Groups. Alb. Inst. Trans. 1883. 10:145-97.
Read by title before the Albany Institute, Mar. 29, 1881.
- Hall. Bryozoa (*Fenestellidae*) of the Hamilton Group. Mus. rep. 36 (for 1882) 1883. p.57-72.
- — — Plates and Descriptions. Geol. rep. 6 (for 1886) 1887. p.41-70. 7pl. Mus. rep. 41 (for 1887) 1888. pl.8-15.
- Hall. Preliminary Notice of the Lamellibranchiate Shells of the Upper Helderberg, Hamilton and Chemung Groups (preparatory for the Palaeontology of New York). Mus. rep. 35 (for 1881) 1884. p.215-406g.
- Hall. Lamellibranchiata: Monomyaria of the Upper Helderberg, Hamilton and Chemung Groups. Pal. N. Y. 1884. v.5. pt1. 268p. 45pl.; *Dinomyaria* of the Upper Helderberg, Hamilton, Portage and Chemung Groups. Pal. N. Y. 1885. v.5. pt1. p.269-561. 51pl.
- Hall. Descriptions of Bryozoans of the Hamilton Group (*Fenestellidae* excepted). Geol. rep. 3 (for 1883) 1884. p.5-61.
- Hall & Simpson. Corals and Bryozoa of the Hamilton Group. Pal. N. Y. 1887. 6:175-292. pl.55-66.
- Hall & Clarke. Trilobites and other Crustacea of the Oriskany, Upper Helderberg, Hamilton, Portage, Chemung and Catskill Groups. Pal. N. Y. 1888. v.7. 236p. 46pl.
- Lincklaen. Hamilton Group; Fossils. Mus. rep. 14 (for 1860) 1861. p.65-68.
- Luther. Hamilton Group. Geol. rep. 16 (for 1896) 1899. p.216-19. *Same*, Mus. rep. 50 (for 1896) 1899. 2:216-19.
- Luther. Hamilton Group in Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p. 39, 42-45. *Same*, Mus. rep. 47 (for 1893) 1894. p.233, 236-39.
- Luther. Hamilton Group of Onondaga County. Geol. rep. 15 (for 1895) 1897. p.279-84. *Same*, Mus. rep. 49 (for 1895) 1898. 2:279-84.

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- Mather. Hamilton Group. Geol. N. Y. pt1. 1843. p.317.
- Merrill. Hamilton Group. Mus. bul. 19. 1898. p.162-64. *Same*, Mus. rep. 51 (for 1897) 1899. 1:162-64.
- Prosser. Classification and Distribution of the Hamilton and Chemung Series of Central and Eastern New York. Pt1, Geol. rep. 15 (for 1895) 1897. p.12-13, 83-222. pl. (phot.) map. Pt2, Geol. rep. 17 (for 1897) 1899. p.65-315. pl. (phot.) map. *Same*, Pt1, Mus. rep. 49 (for 1895) 1898. 2:12-13, 83-222. pl. (phot.) map. Pt2, Mus. rep. 51 (for 1897) 1899. 2:63-315. pl. (phot.) map.
- Pt 1 Geologic map of parts of Chenango, Madison, Otsego, Schoharie and Albany counties, 58x33.5cm.
- Pt 2 Map showing distribution of middle and upper Devonian rocks in central-eastern New York, 61x38.5cm.; map of Delaware county, by W. L. Fisher, 34x32cm.
- Ries. Hamilton Group of Orange County. Geol. rep. 15 (for 1895) 1897. p.403-4. *Same*, Mus. rep. 49 (for 1895) 1898. 2:403-4.
- Smock. Hamilton Group. Mus. bul. 3. 1888. p.17-18; 10. 1890. p.222-23.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.387-88. *Same*, Mus. rep. 48 (for 1894) 1895. 1:387-88 (2d paging).
- — *revised* by Merrill. Mus. bul. 19. 1898. p.191-92. *Same*, Mus. rep. 51 (for 1897) 1899. 1:191-92.
- Smock. Quarries. Mus. bul. 3. 1888. p.71-85; 10. 1890. p.265-75.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.400-8. *Same*, Mus. rep. 48 (for 1894) 1895. 1:400-8 (2d paging).
- ^aVanuxem. Hamilton Group. Geol. rep. 3d dist. (for 1839) 1840. p.380. Geol. N. Y. pt3. 1842. p.150-63.
- Vanuxem. Hamilton Group in Broome County. Geol. N. Y. pt3. 1842. p.295.
- Vanuxem. Hamilton Group in Cayuga County. Geol. N. Y. pt3. 1842. p.288-89.
- Vanuxem. Hamilton Group in Chenango County. Geol. N. Y. pt3. 1842. p.292-93.
- Vanuxem. Hamilton Group in Cortland County. Geol. N. Y. pt3. 1842. p.290.
- Vanuxem. Hamilton Group in Madison County. Geol. N. Y. pt3. 1842. p.275-77.
- Vanuxem. Hamilton Group in Oneida County. Geol. N. Y. pt3. 1842. p.264.
- Vanuxem. Hamilton Group in Onondaga County. Geol. N. Y. pt3. 1842. p.285.
- Vanuxem. Hamilton Group in Otsego County. Geol. N. Y. pt3. 1842. p.254.
- Vanuxem. Hamilton Group in Tompkins County. Geol. N. Y. pt3. 1842. p.298.
- Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.151-53, 158-63, 306.
- See also* Hamilton shales; Marcellus shales; Tully limestone.
- Hamilton shales.** Bishop. Hamilton Shales of Erie County. Geol. rep. 15 (for 1895) 1897. p.316-20. *Same*, Mus. rep. 49 (for 1895) 1898. 2:316-20.
- Clarke. Hamilton Shales of Ontario County. Geol. rep. 4 (for 1884) 1885. p.12-17.
- Clarke & Schuchert. Hamilton Beds. *See* New York series.
- Darton. Hamilton Flags and Shales; Hamilton Black Shales in Albany County. Geol. rep. 13 (for 1893) 1894. p.240-42. *Same*, Mus. rep. 47 (for 1893) 1894. p.434-36.

^a First use of term.

Hamilton shales (*continued*)

- Darton. Hamilton Shales of Ulster County. Geol. rep. 13 (for 1893) 1894. p.300-1. *Same*, Mus. rep. 47 (for 1893) 1894. p.494-95.
- Emmons. Hamilton Shales. Ag. N. Y. 1846. 1:183-86.
- Grabau. Hamilton Shales. Geol. rep. 16 (for 1896) 1899. p.235-36. *Same*, Mus. rep. 50 (for 1896) 1899. 2:235-36.
- Lincoln. Hamilton Shales of Seneca County. Geol. rep. 14 (for 1894) 1895. p.93-95. *Same*, Mus. rep. 48 (for 1894) 1895. 2:93-95.
- Luther. Hamilton Shales of Onondaga County. Geol. rep. 15 (for 1895) 1897. p.280-82. *Same*, Mus. rep. 49 (for 1895) 1898. 2:280-82.
- Luther. Hamilton Shales of the Salt District. Geol. rep. 16 (for 1896) 1899. p.217-19. *Same*, Mus. rep. 50 (for 1896) 1899. 2:217-19.
- Merrill. Hamilton Shale. Mus. bul. 19. 1898. p.163. *Same*, Mus. rep. 51 (for 1897) 1899. 1:163.
- Ries. Hamilton Shale. Geol. rep. 15 (for 1895) 1897. p.693-94. *Same*, Mus. rep. 49 (for 1895) 1898. 2:693-94.
- — — *revised*. Mus. bul. 35. 1900. p.831-34. *Same*, Mus. rep. 54 (for 1900) 1902. 2:831-34.
- Harlem quadrangle.** Woodworth. Harlem Quadrangle. Mus. bul. 48. 1901. p.648-50. *Same*, Mus. rep. 54 (for 1900) 1902. 4:648-50.
- Harmatome.** Beck. Harmatome. Min. N. Y. 1842. p.451.
- Harrison diorite.** Eckel. Quarries. Geol. rep. 20 (for 1900) 1902. p.r165-66. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r165-66.
- Merrill. Harrison Diorite. Mus. rep. 50 (for 1896) 1898. 1:30 (1st paging).
- Hartz mountains.** Clarke. The Hercynian Question. Geol. rep. 8 (for 1888) 1889. p.62-91. *Same*, Mus. rep. 42. (for 1888) 1889. p.408-37.
- Heavy spar,** *see* Barite.
- Helderberg division.** Denniston. Helderberg Division in Orange County. Ag. Soc. Trans. 22 (for 1862) 1863. p.155.
- Emmons. Helderberg Series. Geol. N. Y. pt2. 1842. p.100, 429.
- Emmons. Helderberg Division. Ag. N. Y. 1846. 1:153-79.
- Hall. Helderberg Series. Geol. N. Y. pt4. 1843. p.18, 117-76.
- ^aMather. Helderberg Limestone Group. Geol. rep. 1st dist. (for 1839) 1840. p.212, 236-46; (for 1840) 1841. p.85-89.
- Mather. Helderberg Division. Geol. N. Y. pt1. 1843. p.324-53.
- Mather. Fossils. Geol. N. Y. pt1. 1843. p.324, 333, 337-53.
- Mather. Economical Applications. Geol. N. Y. pt1. 1843. p.326-30.
- Vanuxem. Helderberg Division. Geol. N. Y. pt3. 1842. p.15-16, 94-146.
- Helderberg limestones** (Coeymans; Becraft; Scutella; Lower Helderberg; Lower Pentamerus).
- Clarke. Hercynian Question. Geol. rep. 8 (for 1888) 1889. p.62-91. *Same*, Mus. rep. 42 (for 1888) 1889. p.408-37.
- Clarke. Devonian Age of the Helderbergian Fauna and the Base of the Devonian System in New York. Mus. mem. 3. 1900. p.82-98. *Same*, Mus. rep. 53 (for 1899) 1901. 2:82-98.
- Clarke. Helderbergian Fauna. Mus. bul. 52. 1902. p.665-66.
- ^aConrad. Helderberg Limestones. Pal. rep. (for 1838) 1839. p.62.
- Darton. Report on the Relations of the Helderberg Limestones and Associated Formations in Eastern New York. Geol. rep. 13 (for 1893) 1894. p.197-228. pl. (phot.) *Same*, Mus. rep. 47 (for 1893) 1894. p.391-422. pl. (phot.)
- Merrill. Helderberg Rocks. Mus. bul. 19. 1898. p.156-57. *Same*, Mus. rep. 51 (for 1897) 1899. 1:156-57.

Helderberg limestones (*continued*)

- Ries. Helderberg Limestones. Geol. rep. 17 (for 1897) 1899. p.364-70.
Same, Mus. rep. 51 (for 1897) 1899. 2:364-70.
- Ries. Lower Helderberg Limestones. Mus. bul. 44. 1901. p.759-64. *Same*,
 Mus. rep. 54 (for 1900) 1902. 3:759-64.
- Ries. Helderberg Limestone of Albany County. Geol. rep. 17 (for 1897)
 1899. p.429-31. *Same*, Mus. rep. 51 (for 1897) 1899. 2:429-31.
- Ries. Lower Helderberg Limestone of Albany County. Mus. bul. 44.
 1901. p.770-72. *Same*, Mus. rep. 54 (for 1900) 1902. 3:770-72.
- Ries. Lower Helderberg Limestone of Cayuga County. Mus. bul. 44.
 1901. p.773-74. *Same*, Mus. rep. 54 (for 1900) 1902. 3:773-74.
- Ries. Helderberg Limestone of Genesee County. Mus. bul. 44. 1901.
 p.783-85. *Same*, Mus. rep. 54 (for 1900) 1902. 3:783-85.
- Ries. Lower Helderberg Limestone of Greene County. Mus. bul. 44.
 1901. p.786. *Same*, Mus. rep. 54 (for 1900) 1902. 3:786.
- Ries. Helderberg Limestones of Herkimer County. Geol. rep. 17 (for
 1897) 1899. p.438. *Same*, Mus. rep. 51 (for 1897) 1899. 2:438.
- — *revised*. Mus. bul. 44. 1901. p.788. *Same*, Mus. rep. 54 (for
 1900) 1902. 3:788.
- Ries. Helderberg Limestones of Livingston County. Mus. bul. 44. 1901.
 p.792. *Same*, Mus. rep. 54 (for 1900) 1902. 3:792.
- Ries. Lower Helderberg Limestone of Madison County. Mus. bul. 44.
 1901. p.793. *Same*, Mus. rep. 54 (for 1900) 1902. 3:793.
- Ries. Helderberg Limestones of Oneida County. Geol. rep. 17 (for 1897)
 1899. p.445. *Same*, Mus. rep. 51 (for 1897) 1899. 2:445.
- — *revised*. Mus. bul. 44. 1901. p.801-3. *Same*, Mus. rep. 54 (for
 1900) 1902. 3:801-3.
- Ries. Helderberg Limestones of Onondaga County. Geol. rep. 17 (for
 1897) 1899. p.447-48. *Same*, Mus. rep. 51 (for 1897) 1899. 2:447-48.
- Ries. Lower Helderberg Limestone of Onondaga County. Mus. bul. 44.
 1901. p.803-6. *Same*, Mus. rep. 54 (for 1900) 1902. 3:803-6.
- Ries. Lower Helderberg Limestones of Ontario County. Mus. bul. 44.
 1901. p.807-8. *Same*, Mus. rep. 54 (for 1900) 1902. 3:807-8.
- Ries. Helderberg Limestones of Orange County. Geol. rep. 15 (for 1895)
 1897. p.401-2. *Same*, Mus. rep. 49 (for 1895) 1898. 2:401-2.
- Ries. Lower Helderberg Limestones of Orange and Rockland Counties.
 Mus. bul. 44. 1901. p.810. *Same*, Mus. rep. 54 (for 1900) 1902. 3:810.
- Ries. Helderberg Limestones of Schoharie County. Mus. bul. 44. 1901.
 p.816. *Same*, Mus. rep. 54 (for 1900) 1902. 3:816.
- See also* Becraft limestone; Coeymans limestone; Helderberg division;
 Lower Helderberg group; Scutella limestone.
- Helderberg sandstones.** ^aConrad. Helderberg Sandstones. Pal. rep. (for
 1838) 1839. p.62.
- Helderbergian (Lower Helderberg).** Clarke & Schuchert. Helderbergian.
 Mus. mem. 3. 1900. p.10. *Same*, Mus. rep. 53 (for 1899) 1901. 2:10.
- Helderbergs.** Hall. Rocks of the Helderberg Mountains. Pal. N. Y. 1859.
 3:97-98.
- Prosser & Rowe. Stratigraphic Geology of the Eastern Helderbergs.
 Geol. rep. 17 (for 1897) 1899. p.329-54. pl. (phot.) *Same*, Mus. rep. 51
 (for 1897) 1899. 2:329-54. pl. (phot.)
- Prosser. Sections of the Formations along the Northern End of the
 Helderberg Plateau. Geol. rep. 18 (for 1898) 1899. p.51-72. pl. (phot.)
Same, Mus. rep. 52 (for 1898) 1900. 2:51-72. pl. (phot.)

^aFirst use of term.

- Hell Gate.** Meriam. Description of the Means employed to remove the Rocks at Hurlgate by Submarine Engineering. Mus. rep. 5 (for 1851) 1852. p.59-64. illus.
- Hematite.** Beck. Specular Iron Ore. Min. rep. (for 1836) 1837. p.28-32 (ed. 2, p.30-34); (for 1838) 1839. p.46. Min. N. Y. 1842. p. 23-26, 385-86.
- Conrad.** Red Oxide of Iron and Associated Strata. Geol. rep. 3d dist. (for 1836) 1837. p.176-77 (ed. 2, p.178-79).
- Emmons.** Specular Oxide of Iron. Geol. rep. 2d dist. (for 1837) 1838. p.206-8. Geol. N. Y. pt2. 1842. p.92-98.
- Emmons.** Hematitic Iron, or Limonite. Geol. N. Y. pt2. 1842. p.161-62.
- Emmons.** Iron Ores of the Primary District of St Lawrence County. Geol. N. Y. pt2. 1842. p.341-47.
- Emmons.** Specular Oxide of Iron in Jefferson County. Geol. N. Y. pt2. 1842. p.376-77.
- Hall.** Specular Oxide of Iron. Geol. rep. 2d dist. (for 1836) 1837. p.136-38 (ed. 2, p.138-40).
- Hunt.** Hematite. Mus. rep. 21 (for 1867) 1871. p.88-89.
- Merrill.** Localities in New York. Mus. bul. 15. 1895. p.543. *Same*, Mus. rep. 48 (for 1894) 1895. 1:543 (2d paging).
- Salisbury.** Analysis of a Specimen of Hematitic Iron Ore. Mus. rep. 4 (for 1850) 1851. p.111.
- Smock.** Hematite Ores of St Lawrence and Jefferson Counties. Mus. bul. 7. 1889. p.10-11, 44-48.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.537-38. *Same*, Mus. rep. 48 (for 1894) 1895. 1:537-38 (2d paging).
- — — *revised* by Merrill. Mus. bul. 19. 1898. p.219. *Same*, Mus. rep. 51 (for 1897) 1899. 1:219.
- Smyth.** Hematites of St Lawrence and Jefferson Counties. Geol. rep. 13 (for 1893) 1894. p.498-511. *Same*, Mus. rep. 47 (for 1893) 1894. p.692-705.
- Vanuxem.** Specular Iron Ore of Lewis County. Geol. N. Y. pt3. 1842. p.267.
- Whitlock.** Hematite. Mus. bul. 58. 1902. p.71-72.
- See also* Clinton ores; Iron ores.
- Hemiptera.** Additions to Collection. Ent. rep. 3, p.141-42; 4, p.208; 5, p.326; 6, p.189; 7, p.383-84; 8, p.299; 9, p.463-64; 10, p.512, 517-19; 11, p.287-88; 12, p.363; 13, p.374; 14, p.259-62; 15, p.613-18; 16, p.1042-45; 17, p.820-24; 18, p.174-77.
- For dates of reports, *see* List of publications, p.264.
- Fitch.** Catalogue with References and Descriptions of the Insects collected and arranged for the State Cabinet of Natural History. Mus. rep. 4 (for 1850) 1851. p.43-69.
- On the Homoptera. Reprinted in Ent. rep. 9 and Mus. rep. 46, p. 381-409.
- Lintner.** Species Treated. Ent. rep. 1 (for 1881) 1882. p.264-88.
- — — Ent. rep. 2 (for 1882 and 1883) 1885. p.144-87.
- — — Ent. rep. 3 (for 1886) 1887. p.107-28. *Same*, Mus. rep. 40 (for 1886) 1887. p.107-28.
- — — Ent. rep. 4 (for 1887) 1888. p.107-21, 156-58. *Same*, Mus. rep. 41 (for 1887) 1888. p.227-41, 276-78.
- — — Ent. rep. 5 (for 1888) 1889. p.242-57. *Same*, Mus. rep. 42 (for 1888) 1889. p.242-57.
- — — Ent. rep. 6 (for 1889) 1890. p.137-48. *Same*, Mus. rep. 43 (for 1889) 1890. p.137-48.
- — — Ent. rep. 7 (for 1890) 1891. p.296-301, 317-18. *Same*, Mus. rep. 44 (for 1890) 1892. p.296-301, 317-18.
- — — Ent. rep. 8 (for 1891) 1893. p.152-55. *Same*, Mus. rep. 45 (for 1891) 1892. p.152-55.

Hemiptera (*continued*)

- — — Ent. rep. 9 (for 1892) 1893. p.315-29. *Same*, Mus. rep. 46 (for 1892) 1893. p.315-29.
- — — Ent. rep. 10 (for 1894) 1895. p.420-39. *Same*, Mus. rep. 48 (for 1894) 1895. 1:420-39 (1st paging).
- — — Ent. rep. 11 (for 1895) 1896. p.198-233. *Same*, Mus. rep. 49 (for 1895) 1897. 1:198-233.
- — — Ent. rep. 12 (for 1896) 1897. p.272-98. *Same*, Mus. rep. 50 (for 1896) 1898. 1:272-98 (1st paging).
- — — Ent. rep. 13 (for 1897) 1898. p.351-57. *Same*, Mus. rep. 51 (for 1897) 1899. 1:351-57.
- Say. Heteropterus Hemiptera. Ag. Soc. Trans. 17 (for 1857) 1858. p.754-812.

Species

The following list of species includes only the more important accounts by Lintner in Ent. rep. 1-13; by Felt in Ag. Soc. Trans. 59, Forest, Fish and Game Com. reports.

- Acanthia lectularia. Ag. Soc. Trans. 59, p.299-300.
- Blissus leucopterus. Ent. rep. 2, p.148-64.
- Chermes pinicorticis. Forest, Fish and Game Com. rep. 7. *In press*.
- Cicada septendecim. Ent. rep. 12, p.272-89. *Same*, Mus. rep. 50, 1:272-89 (1st paging).
- Lygus pratensis. Ent. rep. 13, p.351-57. *Same*, Mus. rep. 51, 1:351-57.
- Poecilocapsus lineatus. Ent. rep. 1, p.271-81.
- Psylla pyricola. Ent. rep. 9, p.317-29. *Same*, Mus. rep. 46, p.317-29.
- Hemiptera.** *Scale insects.* Felt. Experiments on Scale Insects. Ent. rep. 16 (for 1900) 1901. p.967-88 (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:967-88.
- — — Ent. rep. 17 (for 1901) 1902. p.761-75. (Mus. bul. 53).
- — — Ent. rep. 18 (for 1902). p.126-43. *In press*.
- Felt. Scale Insects of Importance and a List of the Species in New York. Mus. bul. 46. 1901. p.289-377. 7pl. (lith.) Spl. phot. *Same*, Mus. rep. 54 (for 1900) 1902. 4:289-377. 7pl. (lith.) Spl. (phot.)
- Lintner. Species Treated. Ent. rep. 4 (for 1887) 1888. p.114-20. *Same*, Mus. rep. 41 (for 1887) 1888. p.234-40.
- — — Ent. rep. 6 (for 1889) 1890. p.141-47. *Same*, Mus. rep. 43 (for 1889) 1890. p.141-47.
- — — Ent. rep. 11 (for 1895) 1896. p.200-33. *Same*, Mus. rep. 49 (for 1895) 1897. 1:200-33.
- — — Ent. rep. 12 (for 1896) 1897. p.292-98. *Same*, Mus. rep. 50 (for 1896) 1898. 1:292-98 (1st paging).

Species

The following list of species includes only the more important accounts by Lintner in Ent. rep. 1-13, Mus. bul. 13; by Felt in Ent. rep. 14-18, Ag. Soc. Trans. 59, Forest, Fish and Game Com. reports, Mus. bul. 20, 27, 46.

- Aspidiotus ancyclus. Putnam's scale insect. Mus. bul. 46, p.326-30. *Same*, Mus. rep. 54, 4:326-30.
- Aspidiotus forbesi. Cherry scale insect. Mus. bul. 46, p.330-32. *Same*, Mus. rep. 54, 4:330-32.
- Aspidiotus hederæ. Ivy scale insect. Ent. rep. 11. p.203-4. *Same*, Mus. rep. 49, 1:203-4.
- — — Mus. bul. 46, p.333-36. *Same*, Mus. rep. 54, 4:333-36.
- Aspidiotus ostreaeformis. European fruit tree scale insect. Mus. bul. 46, p.323-26. *Same*, Mus. rep. 54, 4:323-26.
- Aspidiotus perniciosus. San José scale insect. Ent. rep. 11, p.200-33. *Same*, Mus. rep. 49, 1:200-33.

Hemiptera. *Scale insects (continued)*

- Mus. bul. 13, p.263-305. *Same*, Mus. rep. 48, 1:263-305 (2d paging).
 — Ent. rep. 16, p.967-88. *Same*, Mus. rep. 54, 2:967-88.
 — Mus. bul. 46, p.304-23, 336-42. *Same*, Mus. rep. 54, 4:304-23, 336-42.
 — Ent. rep. 17, p.761-75. (Mus. bul. 53).
 — Ent. rep. 18, p.126-43. *In press*.
 ·Chionaspis fuffura. Scurfy bark louse. Mus. bul. 46, p.300-4. *Same*, Mus. rep. 54, 4:300-4.
 ·Chionaspis pinifoliae. Pine leaf scale insect. Forest, Fish and Game Com. rep. 7. *In press*.
 ·Gossyparia ulmi. Elm tree bark louse. Ent. rep. 12, p.292-98. *Same*, Mus. rep. 50, 1:292-98.
 — Mus. bul. 20, p.16-18. *Same*, Mus. rep. 52, 1:16-18.
 — Mus. bul. 27, p.46. *Same*, Mus. rep. 53, 1:46.
 — Forest, Fish and Game Com. rep. 5, p.375-79.
 Lecanium tulipiferae. Tulip tree scale insect. Ent. rep. 14, p.213-16. (Mus. bul. 23). *Same*, Mus. rep. 52, 1:213-16.
 Mytilaspis pomorum. Appletree bark louse. Ent. rep. 4, p.114-20. *Same*, Mus. rep. 41, p.234-40.
 — Mus. bul. 46, p.297-300. *Same*, Mus. rep. 54, 4:297-300.
 Pulvinaria innumerabilis. Cottony maple tree insect. Ent. rep. 6, p.141-47. *Same*, Mus. rep. 43, p.141-47.
 — Mus. bul. 27, p.52. *Same*, Mus. rep. 53, 1:52.
 — Forest, Fish and Game Com. rep. 4, p.393-95.

Hempstead quadrangle. Woodworth. Hempstead Quadrangle. Mus. bul. 48. 1901. p.618. *Same*, Mus. rep. 54 (for 1900) 1902. 4:618.

Hepatic springs, *see* Sulfur springs.

Hercynian question. Clarke. The Hercynian Question. Geol. rep. 8 (for 1888) 1889. p.62-91. *Same*, Mus. rep. 42 (for 1888) 1889. p.408-37.
See also Helderberg limestones.

Herkimer county. Beck. Mineralogy. Min. rep. (for 1839) 1840. p.69-70. Cushing. Pre-Cambrian Outlier at Little Falls. Geol. rep. 20 (for 1900) 1902. p.r83-95. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r83-95.

Darton. Geology of the Mohawk Valley in Herkimer, Fulton, Montgomery and Saratoga Counties. Geol. rep. 13 (for 1893) 1894. p.407-29. pl. (phot.) *Same*, Mus. rep. 47. (for 1893) 1894. p.601-23. pl. (phot.)

Darton. Faulted Region. Geol. rep. 14 (for 1894) 1895. p.11-12, 31-53. pl. (phot.) map. *Same*, Mus. rep. 48 (for 1894) 1895. 2:11-12, 31-53. pl. (phot.) map.

Preliminary geologic map of portions of Herkimer, Fulton, Montgomery, Saratoga and adjacent counties (uncolored) 28.5x16.5cm.

Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.561. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:561.

— Ent. rep. 16 (for 1900) 1901. p.1011-12. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1011-12.

— Ent. rep. 17 (for 1901) 1902. p.784-86. (Mus. bul. 53).

— Ent. rep. 18 (for 1902). p.148-49. *In press*.

Ries. Brick Yards. Mus. bul. 12. 1895. p.197, 198, 246. *Same*, Mus. rep. 48 (for 1894) 1895. 1:197, 198, 246 (2d paging).

— Mus. bul. 35. 1900. p.713, 714. *Same*, Mus. rep. 54 (for 1900) 1902. 2:713, 714.

Ries. Limestones. Geol. rep. 17 (for 1897) 1899. p.437-39. *Same*, Mus. rep. 51 (for 1897) 1899. 2:437-39.

— *revised*. Mus. bul. 44. 1901. p.787-89. *Same*, Mus. rep. 54 (for 1900) 1902. 3:787-89.

Herkimer county (*continued*)

- Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.32, 71, 112-13; 10: 1890. p.232, 246, 250, 273.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.378, 395-96, 439, 443. *Same*, Mus. rep. 48 (for 1894) 1895. 1:378, 395-96, 439, 443 (2d paging).
- Vanuxem. Herkimer County. Geol. rep. 3d dist. (for 1837) 1838. p.266-73. Geol. N. Y. pt3. 1842. p.255-59.
- White. Report on the Relations of the Ordovician and Eo-Silurian Rocks in Portions of Herkimer, Oneida and Lewis Counties. Mus. rep. 51 (for 1897) 1899. 1:r21-54. pl. (phot.) 2 maps.
Map of the vicinity of Frankfort hill, 31.5x16.5cm.
Map of the Precambrian border in Oneida and Lewis counties, 49.5x16cm.
- Young. List of Coleoptera taken at Newport, Herkimer co., N. Y. Ent. rep. 18 (for 1902). p.153-61. *In press*.
- Hessian fly.** Felt. Hessian Fly. Ent. rep. 17 (for 1901) 1902. p.705-30. (Mus. bul. 53).
- Fitch. Hessian Fly. Ag. Soc. Trans. 21 (for 1861) 1862. p.819-30 (rep.7. sep. ed. p.133-44).
- Heulandite.** Beck. Heulandite. Min. N. Y. 1842. p.346-47. Mus. rep. 3, *rev. ed.* (for 1849) 1850. p.140-41.
- Whitlock. Heulandite. Mus. bul. 58. 1902. p.109.
- Hickory borer.** Lintner. Painted Hickory Borer. Ent. rep. 8 (for 1891) 1893. p.175-76. *Same*, Mus. rep. 45 (for 1891) 1892. p.175-76.
- Highlandite.** Mather. Highlandite, Allanite. Geol. N. Y. pt1. 1843. p.512.
- Highlands of Hudson.** Mather. Altered Taconic Rocks. Geol. N. Y. pt1. 1843. p.446-50.
- Mather. Metamorphic Rocks. Geol. N. Y. pt1. 1843. p.465-85.
- Mather. Miscellaneous Remarks. Geol. N. Y. pt1. 1843. p.542-58.
- Mather. Magnetic Oxide of Iron. Geol. N. Y. pt1. 1843. p.559-75.
- Smock. Geological Reconnaissance in the Crystalline Rock Region: Dutchess, Putnam and Westchester Counties, New York. Mus. rep. 39 (for 1885) 1886. p.165-85. map.
Map of Archaean areas of Highlands (uncolored) 11x18.5cm.
- Smock. Magnetic Iron Ores. Mus. bul. 7. 1889. p.5-7, 15-24.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.530-32. *Same*, Mus. rep. 48 (for 1894) 1895. 1:530-32 (2d paging).
- — *revised* by Merrill. Mus. bul. 19. 1898. p.216-18. *Same*, Mus. rep. 51 (for 1897) 1899. 1:216-18.
- See also* Dutchess county; Orange county; Putnam county.
- Historical and antiquarian collection.** Additions. Mus. rep. 3 *rev. ed.*, p.49-62; 4, p.91-98; 5, p.45-54; 6, p.33-34; 7, p.67-77; 8, p.33-39; 9, p.49-60; 13, p.20; 18, p.12; 20 *rev. ed.*, p.20; 21, p.13-14; 22, p.12; 23, p.24; 24, p.28-30; 25, p.22; 27, p.33; 28, p.25; 29, p.23-28; 30, p.17; 31, p.13-14; 32, p.12; 34, p.16; 35, p.16; 36, p.19; 37, p.29; 39, p.19; 40, p.23; 41, p.34; 42, p.64; 43, p.36-37.
For dates of Mus. rep. *see* List of publications, p.241.
- Catalogue. Mus. rep. 2 (for 1848) 1849. p.71-79.
- See also* Indian collection.
- Horn implements.** Beauchamp. Horn and Bone Implements of New York Indians. Mus. bul. 50. 1902. 112p. 43pl. (phot.)
- Hornblende.** Beck. Hornblende. Min. N. Y. 1842. p.298-308. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.134.
- Emmons. Gneiss, Hornblende and Granular Limestone. Geol. rep. 2d dist. (for 1836) 1837. p.113-16 (ed. 2, p.115-18).
- Emmons. Hornblendé. Geol. N. Y. pt2. 1842. p.79-80. Ag. N. Y. 1846. 1:40.

Hornblende (*continued*)

- Emmons. Hornblende and Gneiss in Essex County. Geol. N. Y. pt2. 1842. p.229-31.
- Emmons. Gneiss and Hornblende of St Lawrence County. Geol. N. Y. pt2. 1842. p.340-41.
- Horton. Hornblende Rock of Orange County. Geol. rep. 1st dist. (for 1838) 1839. p.137-39.
- Hunt. Hornblende. Mus. rep. 21 (for 1867) 1871. p.77-78.
- Mather. Hornblendic Rocks. Geol. N. Y. pt1. 1843. p.533-34, 541.
- Merrill. Hornblende. Mus. bul. 19. 1898. p.121. *Same*, Mus. rep. 51 (for 1897) 1899. 1:121.
- Whitlock. Amphibole (Hornblende). Mus. bul. 58. 1902. p.94-96.
See also Amphibole.
- Hough collection.** Catalogue. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.33-35; 4 (for 1850) 1851. p.82-90; 5 (for 1851) 1852. p.23-28, 40-43.
- Hudson river.** Mather. Fluvialite Alluvions. Geol. rep. 1st dist. (for 1837) 1838. p.143-46. Geol. N. Y. pt1. 1843. p.4-10.
- Hudson river bluestone.** Merrill. Directory of Quarrymen. Mus. bul. 15. 1895. p.458-84. *Same*, Mus. rep. 48 (for 1894) 1895. 1:458-84 (2d paging).
- Smock. Quarries. Mus. bul. 3. 1888. p.71-78, 146; 10. 1890. p.222-23, 265-71.
— — *revised* by Merrill. Mus. bul. 15. 1895. p.400-8. *Same*, Mus. rep. 48 (for 1894) 1895. 1:400-8.
— — *revised* by Merrill. Mus. bul. 19. 1898. p.192-93. *Same*, Mus. rep. 51 (for 1897) 1899. 1:192-93.
- Hudson river group.** Clarke & Schuchert. Hudson River Beds. Mus. mem. 3. 1900. p.11. *Same*, Mus. rep. 53 (for 1899) 1901. 2:11.
- Cummings. Historical Sketch. Mus. bul. 34. 1900. p.428-30. *Same*, Mus. rep. 54 (for 1900) 1902. 1:428-30.
- Cushing. Hudson River Group of Clinton County. Geol. rep. 13 (for 1893) 1894. p.476, 486. *Same*, Mus. rep. 47 (for 1893) 1894. p.670, 680.
- Darton. Hudson River Formation. Geol. rep. 13 (for 1893) 1894. p.221. *Same*, Mus. rep. 47 (for 1893) 1894. p.415.
- Darton. Hudson River Formation in Albany County. Geol. rep. 13 (for 1893) 1894. p.249-50. *Same*, Mus. rep. 47 (for 1893) 1894. p.443.
- Darton. Hudson River Formation of Ulster County. Geol. rep. 13 (for 1893) 1894. p.310. *Same*, Mus. rep. 47 (for 1893) 1894. p.504.
- Denniston. Hudson River Group in Orange County. Ag. Soc. Trans. 22 (for 1862) 1863. p.156.
- Fitch. Hudson River Slate of Washington County. Ag. Soc. Trans. 9 (for 1849) 1850. p.827-30.
- Hall. Hudson River Group. Geol. N. Y. pt4. 1843. p.30-31. Pal. N. Y. 1859. 3:14-24.
- Hall. Organic Remains. Geol. N. Y. pt4. 1843. p.30-31. Pal. N. Y. 1847. 1:250-314.
- Hall. Trilobites of the Shales of the Hudson River Group. Mus. rep. 12 (for 1858) 1859. p.59-62. illus. *Same*, Pal. N. Y. 1859. 3:525-29.
- Hall. New Species of Fossils from the Hudson River Group of Ohio and other Western States. Mus. rep. 13 (for 1859) 1860. p.119-21; 14 (for 1860) 1861. p.89-92.
- Hall. Description of New Species of Crinoidea and other Fossils from Strata of the Age of the Hudson-river Group and Trenton Limestone. Mus. rep. 24 (for 1870) 1872. p.205-24. pl.5-7.
- Hall. Description of New Species of Fossils from the Hudson River Group in the Vicinity of Cincinnati, O. Mus. rep. 24 (for 1870) 1872. p.225-32. pl.8.

Hudson river group (*continued*)

Lincklaen. Hudson River Group; Fossils. Mus. rep. 14 (for 1860) 1861. p.48-50.

Luther. Hudson River Group. Geol. rep. 16 (for 1896) 1899. p.200-1. *Same*, Mus. rep. 50 (for 1896) 1899. 2:200-1.

^aMather. Hudson Slate Group. Geol. rep. 1st dist. (for 1839) 1840. p.212, 256-58; (for 1840) 1841. p.90-96.

Mather. Hudson River Group. Geol. N. Y. pt1. 1843. p.369-89.

Merrill. Hudson River Group. Mus. bul. 19. 1898. p.149-50. *Same*, Mus. rep. 51 (for 1897) 1899. 1:149-50.

Ries. Hudson River Shale. Geol. rep. 15 (for 1895) 1897. p.689. *Same*, Mus. rep. 49 (for 1895) 1898. 2:689.

— — Mus. bul. 35. 1900. p.826. *Same*, Mus. rep. 54 (for 1900) 1902. 2:826.

Ries. Hudson River Slates of Orange County. Geol. rep. 15 (for 1895) 1897. p.401, 408-10, 439-42. *Same*, Mus. rep. 49 (for 1895) 1898. 2:401, 408-10, 439-42.

Ruedemann. Hudson River Beds near Albany and their Taxonomic Equivalents. Mus. bul. 42. 1901. p.485-596. 2pl. map. *Same*, Mus. rep. 54 (for 1900) 1902. 3:485-596. 2pl. map.

Stratigraphic map showing the subdivisions of the Hudson river beds in parts of Albany and Rensselaer counties, 51.5x24.5cm.
Contains a bibliography.

Ruedemann. History of the Hudson River Beds. Mus. bul. 42. 1901. p.490-512. *Same*, Mus. rep. 54 (for 1900) 1902. 3:490-512.

Ruedemann. Discussion of Validity of Term. Mus. bul. 42. 1901. p.564-67. *Same*, Mus. rep. 54 (for 1900) 1902. 3:564-67.

Ruedemann. Cambric Dictyonema Fauna in the Slate Belt of Eastern New York. Pal. rep. (for 1902). *In press*.

Smock. Hudson River Group. Mus. bul. 3. 1888. p.15-16; 10. 1890. p.218.

— — *revised* by Merrill. Mus. bul. 15. 1895. p.384-85. *Same*, Mus. rep. 48 (for 1894) 1895. 1:384-85.

— — *revised* by Merrill. Mus. bul. 19. 1898. p.188. *Same*, Mus. rep. 51 (for 1897) 1899. 1:188.

Smock. Quarries. Mus. bul. 3. 1888. p.51-57; 10. 1890. p.259-60.

— — *revised* by Merrill. Mus. bul. 15. 1895. p.394-95. *Same*, Mus. rep. 48 (for 1894) 1895. 1:394-95 (2d paging).

Vanuxem. Hudson River Group. Geol. N. Y. pt3. 1842. p.60-67.

Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.62-67.

See also Champlain division; Frankfort slates; Green shales; Lorraine beds; Pulaski shales; Salmon river sandstones; Taconic.

Hudson river valley. Emmons. Climate. Ag. N. Y. 1846. 1:21-23.

Merrill. Quaternary Geology. Geol. rep. 10 (for 1890) 1891. p.103-9.

Merrill. Relief Map. Mus. bul. 19. 1898. pl.85. *Same*, Mus. rep. 51 (for 1897) 1899. v.1. pl.85.

Ries. Quaternary Deposits of the Hudson River Valley between Croton and Albany, with notes on the brick clays and the manufacture of brick. Geol. rep. 10 (for 1890) 1891. p.110-55.

Ries. Clays. Mus. bul. 12. 1895. p.104-19. *Same*, Mus. rep. 48 (for 1894) 1895. 1:104-19 (2d paging).

— — Mus. bul. 35. 1900. p.576-93. *Same*, Mus. rep. 54 (for 1900) 1902. 2:576-93.

— — *abridged* by Merrill. Mus. bul. 15. 1895. p.498-99. *Same*, Mus. rep. 48 (for 1894) 1895. 1:498-99 (2d paging).

^aFirst use of term.

Hudson river valley (*continued*)

— — — *abridged* by Merrill. Mus. bul. 19. 1898. p.210-11. *Same*, Mus. rep. 51 (for 1897) 1899. 1:210-11.

Ries. Brick Yards. Mus. bul. 12. 1895. p.176-94. *Same*, Mus. rep. 49 (for 1894) 1895. 1:176-94 (2d paging).

— — — Mus. bul. 35. 1900. p.687-709. *Same*, Mus. rep. 54 (for 1900) 1902. 2:687-709.

See also Geological survey, first district.

Hudsonite. Beck. Hudsonite. Min. N. Y. 1842. p.405.

Humite group. Whitlock. Humite Group. Mus. bul. 58. 1902. p.106.

Hurl Gate, *see* Hell Gate.

Hydraulic cement, *see* Cement.

Hydraulic limestone, *see* Waterlime.

Hydrogen. Beck. Hydrogen. Min. rep. (for 1838) 1839. p.13. Min. N. Y. 1842. p.171-72.

Hydrozoa (paleozoic). Clarke. Oriskany Species of Becraft Mountain. Mus. mem. 3. 1900. p.64. *Same*, Mus. rep. 53 (for 1899) 1901. 2:64.

Girty. Hydrozoa of Lower Helderberg Group. Geol. rep. 14 (for 1894) 1895. p.288-99. *Same*, Mus. rep. 48 (for 1894) 1895. 2:288-99.

Grabau. Hydrozoa of Niagara Region. Mus. bul. 45. 1901. p.133-35. *Same*, Mus. rep. 54 (for 1900) 1902. 4:133-35.

Hall. Graptolites of Clinton Group. Pal. N. Y. 1852. 2:39-52.

Hall. Notes upon the Genus Graptolithus and Allied Genera. Pal. N. Y. 1859. 3:495-522.

Hall. Notes upon the Genus Graptolithus. Mus. rep. 12 (for 1858) 1859. p.45-58.

Hall. Notices of New Forms of the Genus Graptolithus and Allied Genera. Mus. rep. 13 (for 1859) 1860. p.55-64.
From sup. to v.1, Pal. N. Y. pub. in v.3, p.510-20.

Hall. Graptolitidae of Potsdam Sandstone. Mus. rep. 16 (for 1862) 1863. p.124.

Hall. Introduction to the Study of the Graptolitidae. Mus. rep. 20 (for 1866) 1867. p.169-240. illus. 4pl.

Hall. Note on the Genus Plumalina. Mus. rep. 30 (for 1876) 1878. p.255-56. pl.4.

Ruedemann. Development and Mode of Growth of the Genus Diplograptus, McCoy. Geol. rep. 14 (for 1894) 1895. p.15, 217-49. 5pl. *Same*, Mus. rep. 48 (for 1894) 1895. 2:15, 217-49. 5pl.

Ruedemann. Graptolite Fauna of the Hudson River Beds near Albany. Mus. bul. 42. 1901. p.485-568. *Same*, Mus. rep. 54 (for 1900) 1902. 3:485-568.

Ruedemann. Graptolite (Levis) Facies of the Beekmantown Formation in Rensselaer County, N. Y. Mus. bul. 52. 1902. p.546-75.

Ruedemann. Mode of Growth and Development of Goniograptus thureaui, McCoy. Mus. bul. 52. 1902. p.576-92.

Ruedemann. Cambric Dictyonema Fauna in the Slate Belt of Eastern New York. Pal. rep. (for 1902). *In press*.

Hygrophorus. Peck. Genus Hygrophorus. Mus. rep. 23 (for 1869) 1873. p.112-14.

Hymenoptera. Additions to Collection. Ent. rep. 3, p.140; 4, p.205; 5, p.324; 6, p.186; 8, p.296; 9, p.461; 10, p.509, 515; 11, p.284; 12, p.359; 13, p.371; 14, p.255; 15, p.600-1; 16, p.1034; 17, p.808-9; 18, p.170.

For dates of reports, *see* List of publications, p.264.

Felt. Natural Enemies of Notolephus. Ent. rep. 14 (for 1898) 1898. p.168-71 (Mus. bul. 23). *Same*, Mus. rep. 52 (for 1898) 1900. 1:168-71.

Lintner. Species Treated. Ent. rep. 2 (for 1882 and 1883) 1885. p.217-20.

Hymenoptera (*continued*)

- — Ent. rep. 3 (for 1886) 1887. p.87-90. *Same*, Mus. rep. 40 (for 1886) 1887. p.87-90.
- — Ent. rep. 4 (for 1887) 1888. p.27-48. *Same*, Mus. rep. 41 (for 1887) 1888. p.147-68.
- — Ent. rep. 5 (for 1888) 1889. p.164-73. *Same*, Mus. rep. 42 (for 1888) 1889. p.164-73.
- — Ent. rep. 6 (for 1889) 1890. p.109-11. *Same*, Mus. rep. 43 (for 1889) 1890. p.109-11.
- — Ent. rep. 7 (for 1890) 1891. p.223-24. *Same*, Mus. rep. 44 (for 1890) 1892. p.223-24.
- — Ent. rep. 8 (for 1891) 1893. p.163-69. *Same*, Mus. rep. 45 (for 1891) 1892. p.163-69.
- — Ent. rep. 10 (for 1894) 1895. p.365-69. *Same*, Mus. rep. 48 (for 1894) 1895. 1:365-69 (1st paging).
- — Ent. rep. 11 (for 1895) 1896. p.109-23. *Same*, Mus. rep. 49 (for 1895) 1897. 1:109-23.
- — Ent. rep. 12 (for 1896) 1897. p.181-82. *Same*, Mus. rep. 50 (for 1896) 1898. 1:181-82 (1st paging).
- — Ent. rep. 13 (for 1897) 1898. p.335-42. *Same*, Mus. rep. 51 (for 1897) 1899. 1:335-42.

Species

The following list of species includes only the more important accounts by Fitch, in *Ag. Soc. Trans.* 21, 27; by Lintner in *Ent. rep.* 1-13; by Felt, in *Ag. Soc. Trans.* 59, *Forest, Fish and Game Com. reports*, Mus. bul. 20; by Ashmead and MacGillivray in *Mus. bul.* 47. For dates of reports and bulletins, see p.264.

- Aphidius nigripes*. Mus. bul. 47, p.588. *Same*, Mus. rep. 54, 4:588.
- Atractodes sepedontis*. Mus. bul. 47, p.588-89. *Same*, Mus. rep. 54, 4:588-89.
- Brachystropha quadriceps*. Mus. bul. 47, p.587. *Same*, Mus. rep. 54, 4:587.
- Isosoma hordei*. *Ag. Soc. Trans.* 21, p.830-41 (rep.7. sep. ed. p.144-55).
- Ent. rep. 4, p.27-35. *Same*, Mus. rep. 41, p.147-55.
- Isosoma vitis*. Mus. rep. 30, p.136-40.
- Monomorium pharaonis*. *Ent. rep.* 11, p.109-14. *Same*, Mus. rep. 49, 1:109-14.
- *Ag. Soc. Trans.* 59, p.298-99.
- Pachynematus corticosus*. Mus. bul. 47, p.584-85. *Same*, Mus. rep. 54, 4:584-85.
- Pteronus ribesii*. *Ag. Soc. Trans.* 27, p.909-32 (rep.12. sep. ed.)
- *Ent. rep.* 2, p.217-21.
- Rhizarcha astigma*. Mus. bul. 47, p.587-88. *Same*, Mus. rep. 54, 4:587-88.
- Taxonus innominatus*. Mus. bul. 47. 1901. p.585. *Same*, Mus. rep. 54, 4:585.
- Telenomus longicornis*. Mus. bul. 47, p.586. *Same*, Mus. rep. 54, 4:586.
- Tenthredo rufopectus*. *Ent. rep.* 13, p.335-37. *Same*, Mus. rep. 51, 1:335-37.
- Thalessa lunator*. *Ent. rep.* 4, p.35-41. *Same*, Mus. rep. 41, p.155-61.
- *Forest, Fish and Game Com. rep.* 4, p.389-92.
- Tremex columba*. Mus. bul. 20. 1898. p.18-19. *Same*, Mus. rep. 52, 1:18-19.
- Mus. bul. 57, p.19-20.
- *Forest, Fish and Game Com. rep.* 4, p.389.

Hypersthene. Beck. *Hypersthene*. *Min. N. Y.* 1842. p.309-11. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.135.

Whitlock. *Hypersthene*. Mus. bul. 58. 1902. p.91.

- Hypersthene rock.** Emmons. Hypersthene Rock. Geol. N. Y. pt2. 1842. p.27-37. Ag. N. Y. 1846. 1:39, 40.
- Emmons. Hypersthene rock of Essex County. Geol. N. Y. pt2. 1842. p.221-24.
- Emmons. Hypersthene rock of St Lawrence County. Geol. N. Y. pt2. 1842. p.337.
- Watson. Hypersthene Rock of Essex County. Ag. Soc. Trans. 12 (for 1852) 1853. p.777-78.
- See also* Anorthosites; Laurentian system; Norite.
- Hypsometric map,** *see* Physical geography.
- Ice.** Mather. Transport by Floating Ice; Ground Ice. Geol. N. Y. pt1. 1843. p.39-42.
- See also* Pleistocene.
- Ichneumons,** *see* Hymenoptera.
- Idocrase.** Beck. Idocrase. Min. N. Y. 1842. p.321-23. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.136.
- Hunt. Idocrase. Mus. rep. 21 (for 1867) 1871. p.84.
- See also* Vesuvianite.
- Igneous rocks.** Emerson. Notes upon Two Boulders of a very Basic Eruptive Rock from the West Shore of Canandaigua Lake, and their Contact Phenomena upon the Trenton Limestone. Geol. rep. 12 (for 1892) 1893. p.105-9. *Same*, Mus. rep. 46 (for 1892) 1893. p.251-55.
- Merrill. Igneous Rocks. Mus. bul. 19. 1898. p.124-25. *Same*, Mus. rep. 51 (for 1897) 1899. 1:124-25.
- See also* Anorthosites; Gabbros; Granite; Syenites; Trap.
- Illuminating gas,** *see* Natural gas.
- Ilmenite.** Beck. Ilmenite. Min. N. Y. 1842. p.431-32.
- Hunt. Ilmenite. Mus. rep. 21 (for 1867) 1871. p.86.
- Mather. Specular Oxide of Iron. Titaniferous Iron. Geol. N. Y. pt1. 1843. p.514-15.
- Whitlock. Ilmenite or Menaccanite. Mus. bul. 58. 1902. p.72.
- Ilvaite.** Beck. Ilvaite. Min. N. Y. 1842. p.403-4.
- Indexes.** Felt. Index to Entomologist's Reports 1-13. Mus. bul. 24. 1899. p.401-600. *Same*, Mus. rep. 52 (for 1898) 1900. 1:401-600.
- General Index to the Annual Reports 1-20 on the State Cabinet of Natural History, exclusive of the geological and palaeontological papers. Mus. rep. 21 (for 1867) 1871. p.149-90.
- Indian collection.** Additions. Mus. rep. 2, p.73-79; 3 *rev. ed.*, p.51-95; 4, p.93-101; 5, p.47-54; 6, p.33; 7, p.9, 69-77; 8, p.35-39; 9, p.51; 10, p.187-88; 13, p.17-20; 15, p.13; 16, p.13-14; 18, p.12; 20 *rev. ed.*, p.18; 21, p.13-14; 22, p.12; 23, p.24; 24, p.28; 25, p.22; 28, p.25; 30, p.17; 31, p.13-14; 32, p.12; 34, p.16; 37, p.29; 39, p.19; 41, p.34; 42, p.64; 43, p.36-37; 52, 1:r24-25; 53, 1:r165-66.
- For dates of Mus. rep. *see* List of publications, p.241.
- Catalogue of the Historical and Antiquarian Collection. Mus. rep. 2 (for 1848) 1849. p.71-79.
- Catalogue of Indian Relics obtained by E. G. Squier. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.57-58.
- Catalogue of Indian Relics obtained in the Connecticut and Mississippi Valleys by Dexter Marsh. Mus. rep. 7 (for 1853) 1854. p.73-77.
- Cornplanter Tomahawk.** Mus. rep. 4 (for 1850) 1851. p.99-101.
- Morgan. Communication from. Mus. rep. 2 (for 1848) 1849. p.81-83.
- Morgan. Report on Articles given to the Collection. Mus. rep. 2 (for 1848) 1849. p.84-91; 3 *rev. ed.* (for 1849) 1850. p.63-95. illus. 18pl.
- Morgan. Schedule of Articles obtained from Indians. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.59-62; 5 (for 1851) 1852. p.51-54.

- Indian pass.** Emmons. Description. Geol. rep. 2d dist. (for 1836) 1837. p.103-4 (ed. 2, p.105-6).
- Emmons. Adirondack Pass. Geol. N. Y. pt2. 1842. p.216-18.
- Indiana.** Hall. Descriptions of New Species of Fossils from the Hamilton Group of Western New York, with notices of others from the same horizon in Iowa and Indiana. Mus. rep. 13 (for 1859) 1860. p.76-94. illus.; 15 (for 1861) 1862. p.195.
- Hall. Notes and Observations upon the Fossils of the Goniatite Limestone in the Marcellus Shale of the Hamilton Group, in the Eastern and Central Parts of the State of New York, and those of the Goniatite Beds of Rockford, Ind., with some analogous forms from the Hamilton group proper. Mus. rep. 13 (for 1859) 1860. p.95-112, 125. illus.; 15 (for 1861) 1862. p.81, 196.
- Hall. Fauna of the Niagara Group in Central Indiana. Mus. rep. 28 (for 1874) 1879. p.99-203, 32pl.
- Indians.** Beauchamp. Aboriginal Chipped Stone Implements of New York. Mus. bul. 16. 1897. 86p. 23pl. (phot.) *Same*, Mus. rep. 50 (for 1896) 1898. 1:3-86 (2d paging). 23pl. (phot.)
- Beauchamp. Polished Stone Articles used by the New York Aborigines. Mus. bul. 18. 1897. 102p. 35pl. (phot.) *Same*, Mus. rep. 51 (for 1897) 1899. 1:3-102. 35pl. (phot.)
- Beauchamp. Earthenware of the New York Aborigines. Mus. bul. 22. 1898. p.71-146. 33pl. (phot.) *Same*, Mus. rep. 52 (for 1898) 1900. 1:71-146. 33pl. (phot.)
- Beauchamp. Aboriginal Occupation of New York. Mus. bul. 32. 1900. 187p. 16pl. (phot.) maps. *Same*, Mus. rep. 54 (for 1900) 1902. 1:3-187. 16pl. (phot.) maps.
Contains a bibliography.
Map of the territorial divisions of the aborigines of New York about A. D. 1600, 44x35cm.
Map of the early and recent sites of the aborigines of New York, 93.5x69.5cm.
- Beauchamp. Wampum and Shell Articles used by New York Indians. Mus. bul. 41. 1901. p.319-480. 28pl. (phot.) *Same*, Mus. rep. 54 (for 1900) 1902. 3:319-480. 28pl. (phot.)
List of authorities on wampum, p.321-26.
- Beauchamp. Horn and Bone Implements of New York Indians. Mus. bul. 50. 1902. 112p. 43pl. (phot.)
- Beauchamp. Metallic Implements of New York Indians. Mus. bul. 55. 1902. 94p. 38pl. (phot.)
- Cheney. Illustrations of the Ancient Monuments in Western New York. Mus. rep. 13 (for 1859) 1860. p.37-52. 24pl. map.
- Converse. Iroquois Silver Brooches. Mus. rep. 54 (for 1900) 1902. p.r231-54.
- Ground-plans and Dimensions of Several Trench Enclosures in Western New-York. Mus. rep. 2 (for 1848) 1849. 5pl.
- Hough. Ancient Remains of Art in Jefferson and St Lawrence Counties. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.99-105. 5pl.; 4 (for 1850) 1851. p.103-9. 5pl.
- Morgan. Report on the Fabrics, Inventions, Implements and Utensils of the Iroquois. Mus. rep. 5 (for 1851) 1852. p.67-117. illus. 20pl.
See also Arickarees; Mohawk language.
- Infusoria.** Mather. Infusoria. Geol. N. Y. pt1. 1843. p.48-77, 238-45.
- Infusorial earth.** Merrill. Diatomaceous Earth; Infusorial Earth. Mus. bul. 15. 1895. p.555-56. *Same*, Mus. rep. 48 (for 1894) 1895. 1:555-56 (2d paging).
— — — Mus. bul. 19. 1898. p.226-27. *Same*, Mus. rep. 51 (for 1897) 1899. 1:226-27.
- Insects,** *see* Entomology.
- Inwood limestone.** Merrill. Inwood Limestone. Mus. rep. 50 (for 1896) 1898. 1:26-27 (1st paging).

- Iolite.** Beck. Iolite. Min. N. Y. 1842. p.451.
Whitlock. Iolite. Mus. bul. 58, 1902. p.96-97.
- Iowa.** Hall. Descriptions of New Species of Fossils from the Hamilton Group of Western New York, with notices of others from the same horizon in Iowa and Indiana. Mus. rep. 13 (for 1859) 1860. p.76-94. illus.; 15 (for 1861) 1862. p.195.
Hall & Whitfield. Descriptions of New Species of Fossils from the Devonian Rocks of Iowa. Mus. rep. 23 (for 1869) 1873. p.223-39. pl.9-12.
- Iron.** Beck. Native Iron. Min. rep. (for 1838) 1839. p.43. Min. N. Y. 1842. p.382-83, 445. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.147.
Whitlock. Iron. Mus. bul. 58. 1902. p.51, 131.
- Iron manufacture.** Beck. Present Condition of Manufacture of Iron in the State of New York. Min. rep. (for 1836) 1837. p.42-51 (ed. 2, p.44-53). Min. N. Y. 1842. p.38-43.
Emmons. Iron Manufacture in Essex County. Geol. N. Y. pt2. 1842. p.231-63.
Hall. Quantity of Iron Manufactured in the Different Counties. Geol. rep. 2d dist. (for 1836) 1837. p.142-43 (ed. 2, p.144-45).
Hall. Value and Importance of Iron Manufacture. Geol. rep. 2d dist. (for 1836) 1837. p.143-45 (ed. 2, p.145-47).
- Iron ores.** Beck. Iron Ores. Min. rep. (for 1836) 1837. p.18-42 (ed. 2, p.20-44); (for 1837) 1838. p.7-9; (for 1838) 1839. p.43-47. Min. N. Y. 1842. p.1-37, 382-405.
Emmons. Iron Ore of Essex County. Geol. rep. 2d dist. (for 1837) 1838. p.223-25. Geol. N. Y. pt2. 1842. p.231-63.
Emmons. Iron Ores of Essex and Clinton County. Geol. rep. 2d dist. (for 1839) 1840. p.261-311.
Emmons. Iron Ores of St Lawrence and Jefferson Counties. Geol. rep. 2d dist. (for 1839) 1840. p.311-19. Geol. N. Y. pt2. 1842. p.341-48, 376-77.
Emmons. Ores of Clinton and Franklin. Geol. rep. 2d dist. (for 1840) 1841. p.133-35. Geol. N. Y. pt2. 1842. p.291-308, 326-31.
Hall. Ores of Iron (in northern district). Geol. rep. 2d dist. (for 1836) 1837. p.127-49 (ed. 2, p.129-51).
Hall. Argillaceous Iron Ore. Geol. rep. 4th dist. (for 1837) 1838. p.299-300.
Horton. Iron Ores of Orange County. Geol. rep. 1st dist. (for 1838) 1839. p.161-75.
List of Iron Ores in the Economic Collection. Mus. rep. 26 (for 1872) 1874. p.27-30.
Mather. Iron Ores of Columbia and Dutchess Counties. Geol. rep. 1st dist. (for 1837) 1838. p.181-84.
Mather. Iron Ore of Staten Island. Geol. rep. 1st dist. (for 1837) 1838. p.140.
Merrill. Localities in New York. Mus. bul. 15. 1895. p.542-43. *Same*, Mus. rep. 48 (for 1894) 1895. 1:542-43 (2d paging).
Smock. First Report on the Iron Mines and Iron-ore Districts in the State of New York. Mus. bul. 7. 1889. 70p. map.
Map of New York showing location of iron mines, 58x60cm.
— — — *revised* by Merrill. Mus. bul. 15. 1895. p.529-42. *Same*, Mus. rep. 48 (for 1894) 1895. 1:529-42 (2d paging).
— — — *revised* by Merrill. Mus. bul. 19. 1898. p.214-22. *Same*, Mus. rep. 51 (for 1897) 1899. 1:214-22.
- See also* Chromite; Clinton ores; Geologic collection; Gothite; Mineralogic collection; Hematite; Ilmenite; Limonite; Magnetite; Siderite; Vivianite.

Iron pyrites, *see* Pyrite.

- Iron sinter.** Beck. Iron Sinter. Min. N. Y. 1842. p.396-97.
- Iron, sulfate of,** *see* Copperas.
- Iroquois,** *see* Indians.
- Iroquois, Lake,** *see* Glacial lakes.
- Ischua sandstone.** Horsford. Ischua Sandstones. Geol. rep. 4th dist. (for 1839) 1840. p.466, 469.
- Isopoda,** *see* Crustacea.
- Ithaca group.** Clarke. Stratigraphic and Faunal Relations of the Oneonta Sandstones and Shales, the Ithaca and the Portage Groups in Central New York. Geol. rep. 15 (for 1895) 1897. p.11-12, 27-81. pl. (phot.) 2 maps, 25x28.5, 26x26.5cm. *Same*, Mus. rep. 49 (for 1895) 1898. 2:11-12, 27-81. pl. (phot.) 2 maps, 25x28.5, 26x26.5cm.
- Clarke. Historical and Actual Significance of the Terms Ithaca Group and Ithaca Fauna. Geol. rep. 15 (for 1895) 1897. p.46-52. *Same*, Mus. rep. 49 (for 1895) 1898. 2:46-52.
- Clarke. Ithaca Fauna. Mus. bul. 52. 1902. p.670-71.
- Clarke & Schuchert. Ithaca Beds. *See* New York series.
- Emmons. Ithaca Group. Ag. N. Y. 1846. 1:190-93.
- Geddes. Ithaca Group of Onondaga County. Ag. Soc. Trans. 19 (for 1859) 1860. p.254.
- Hall. Ithaca Group. Geol. N. Y. pt4. 1843. p.250.
- Hall. Ithaca Group in Chemung County. Geol. rep. 4th dist. (for 1838) 1839. p.321-22.
- Hall. Ithaca Group in Steuben County. Geol. rep. 4th dist. (for 1838) 1839. p.325.
- ^aHall. Ithaca Group in Tompkins County. Geol. rep. 4th dist. (for 1838) 1839. p.318.
- Mather. Ithaca and Chemung Group. Geol. N. Y. pt1. 1843. p.317.
- Prosser. Ithaca Formation. Geol. rep. 15 (for 1895) 1897. p.87-94. *Same*, Mus. rep. 49 (for 1895) 1898. 2:87-94.
- Vanuxem. Ithaca Group. Geol. rep. 3d dist. (for 1839) 1840. p.381. Geol. N. Y. pt3. 1842. p.170-71, 174-78.
- Vanuxem. Ithaca Group in Cayuga County. Geol. N. Y. pt3. 1842. p.289.
- Vanuxem. Ithaca Group in Chenango County. Geol. N. Y. pt3. 1842. p.292-93.
- Vanuxem. Ithaca Group in Cortland County. Geol. N. Y. pt3. 1842. p.290.
- Vanuxem. Ithaca Group in Madison County. Geol. N. Y. pt3. 1842. p.277.
- Vanuxem. Ithaca Group in Onondaga County. Geol. N. Y. pt3. 1842. p.285.
- Vanuxem. Ithaca Group in Otsego County. Geol. N. Y. pt3. 1842. p.254.
- Vanuxem. Ithaca Group in Tompkins County. Geol. N. Y. pt3. 1842. p.298.
- Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.175-77.
- Ivy scale insect.** Felt. White Scale Insect of the Ivy. Mus. bul. 46. 1901. p.333-36. *Same*, Mus. rep. 54 (for 1900) 1902. 4:333-36.
- Lintner. The White Scale. Ent. rep. 11 (for 1895) 1896. p.203-4. *Same*, Mus. rep. 49 (for 1895) 1897. 1:203-4.
- — — Mus. bul. 13. 1895. p.271-72. *Same*, Mus. rep. 48 (for 1894) 1895. 1:271-72.
- Jefferson county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.70-72.
- Emmons. Jefferson County. Geol. rep. 2d dist. (for 1839) 1840. p.321-26. Geol. N. Y. pt2. 1842. p.368-414.

^aFirst use of term.

Jefferson county (*continued*)

- Emmons. Iron Ores. Geol. rep. 2d dist. (for 1839) 1840. p.311-19. Geol. N. Y. pt2. 1842. p.376-77.
- Emmons. Map. Geol. N. Y. pt2. 1842. pl.16.
- Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.562. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:562.
- — Ent. rep. 16 (for 1900) 1901. p.1012. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1012.
- Hough. Ancient Remains of Art in Jefferson and St Lawrence Counties. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.99-105, 5pl.; 4 (for 1850) 1851. p.103-9. 5pl.
- Orton. Petroleum and Natural Gas. Mus. bul. 30. 1899. p.456-59. *Same*, Mus. rep. 53 (for 1899) 1901. 1:456-59.
- Ries. Brick Yards. Mus. bul. 12. 1895. p.195, 250. *Same*, Mus. rep. 48 (for 1894) 1895. 1:195, 250 (2d paging).
- — Mus. bul. 35. 1900. p.710-11. *Same*, Mus. rep. 54 (for 1900) 1902. 2:710-11.
- Ries. Limestone Formations. Mus. bul. 44. 1901. p.789-90. *Same*, Mus. rep. 54 (for 1900) 1902. 3:789-90.
- Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.35-36, 51, 116-19; 10. 1890. p.233-34, 247-48, 258.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.379-80, 394, 441. *Same*, Mus. rep. 48 (for 1894) 1895. 1:379-80, 394, 441 (2d paging).
- Smock. Hematite Ores. Mus. bul. 7. 1889. p.10-11, 44-48.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.537-38. *Same*, Mus. rep. 48 (for 1894) 1895. 1:537-38 (2d paging).
- — *revised* by Merrill. Mus. bul. 19. 1898. p.219. *Same*, Mus. rep. 51 (for 1897) 1899. 1:219.
- Smyth. Report on a Preliminary Examination of the General and Economic Geology of Four Townships in St Lawrence and Jefferson Counties, New York. Geol. rep. 13 (for 1893) 1894. p.491-515. *Same*, Mus. rep. 47 (for 1893) 1894. p.685-709.
- Smyth. Geology of the Crystalline Rocks in the Vicinity of the St Lawrence River. Geol. rep. 19 (for 1899) 1901. p.83-104. illus. map. *Same*, Mus. rep. 53 (for 1899) 1901. 1:83-104. illus. map.
Geologic map of portions of St Lawrence and Jefferson counties, 26.5x16.5cm.
- See also* Adirondacks.
- Jewett collection.** Catalogue. Mus. rep. 10 (for 1856) 1857. p.29-37.
- Jointed structure.** Hall. Jointed Structure of the Rocks of the Fourth District. Geol. N. Y. pt4. 1843. p.299-307.
- Jointworm.** Fitch. Jointworm. Ag. Soc. Trans. 21 (for 1861) 1862. p.830-41 (rep.7. sep. ed. p.144-55).
- Lintner. Joint-worm. Ent. rep. 4 (for 1887) 1888. p.27-35. *Same*, Mus. rep. 41 (for 1887) 1888. p.147-55.
- Jurassic.** Merrill. Jurassic System. Mus. bul. 19. 1898. p.172-73. *Same*, Mus. rep. 51 (for 1897) 1899. 1:172-73.
- Merrill. Life of the Jurassic Period. Mus. bul. 19. 1898. p.172-73. *Same*, Mus. rep. 51 (for 1897) 1899. 1:172-73.
- Kames.** Lincoln. Kame District of Seneca County. Geol. rep. 14 (for 1894) 1895. p.72-74. *Same*, Mus. rep. 48 (for 1894) 1895. 2:72-74.
- Kaolinite.** Merrill. Kaolinite. Mus. bul. 19. 1898. p.120. *Same*, Mus. rep. 51 (for 1897) 1899. 1:120.
- Whitlock. Kaolinite (Kaolin). Mus. bul. 58. 1902. p.114-15.
- See also* Clays.
- Kellogg collection.** Catalogue. Mus. rep. 21 (for 1867) 1871. p.9, 13.
- Keuka lake.** Hall. Crooked Lake. Geol. N. Y. pt4. 1843. p.406-7.

- Kings county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.72.
 Mather. Economic Geology. Geol. rep. 1st dist. (for 1837) 1838. p.122-42.
 Mather. Beaches, Spits, Bars, etc. Geol. N. Y. pt1. 1843. p.27-30.
 Mather. Dip and Strike of Rocks. Geol. N. Y. pt1. 1843. p.606.
See also Long Island.
- Kingston.** Smock. Stone Construction in. Mus. bul. 10. 1890. p.322-24.
- Kingston beds.** aClarke & Schuchert. Kingston Beds. Mus. mem. 3. 1900. p.12. *Same*, Mus. rep. 53 (for 1899) 1901. 2:12.
- Kyanite,** *see* Cyanite.
- Labradorite.** Beck. Labradorite. Min. N. Y. 1842. p.341. Mus. rep. 3 rev. ed. (for 1849) 1850. p.138.
 Emmons. Labradorite. Ag. N. Y. 1846. 1:39.
 Merrill. Labradorite. Mus. bul. 19. 1898. p.121. *Same*, Mus. rep. 51 (for 1897) 1899. 1:121.
 Whitlock. Labradorite. Mus. bul. 58. 1902. p.90.
- Labradorite rocks,** *see* Anorthosites; Gabbros; Norite.
- Lactarius.** Peck. Genus Lactarius. Mus. rep. 23 (for 1869) 1873. p.114-20.
 Peck. New York Species of Lactarius. Mus. rep. 38 (for 1884) 1885. p.111-33.
- Ladybugs.** Felt. Two Spotted Ladybug. Ag. Soc. Trans. 59 (for 1899) 1900. p.297.
 Lintner. Two Spotted Ladybug. Ent. rep. 9 (for 1892) 1893. p.306. *Same*, Mus. rep. 46 (for 1892) 1893. p.306.
- Lake marl,** *see* Marl.
- Lake ridge.** Hall. Lake Ridge. Ridge Road. Geol. rep. 4th dist. (for 1837) 1838. p.310-12, 313-14, 348-50. Geol. N. Y. pt4. 1843. p.348-58, 661-62.
- Lakes.** Fairchild. Pleistocene Geology of Western New York. Geol. rep. 20 (for 1900) 1902. p.103-39. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r103-39.
 Grabau. Partial Bibliography of the Geology of Niagara and the Great Lakes. Mus. bul. 45. 1901. p.253-62. *Same*, Mus. rep. 54 (for 1900) 1902. 4:253-62.
 Hall. Depth of Lakes. Geol. rep. 4th dist. (for 1838) 1839. p.338.
 Hall. Lakes; Tables of Elevation. Geol. N. Y. pt4. 1843. p.405-13, 663.
 Vanuxem. Lakes. Geol. N. Y. pt3. 1842. p.237-42.
See also Finger lakes; *also names of lakes.*
- Lamellibranchiata.** De Kay. Lamellibranchia. Zool. N. Y. 1843. v.5. pt5. p.167-249.
 Kellogg. Clam and Scallop Industries of New York. Mus. bul. 43. 1901. p.601-31. 2pl. (phot.) map. *Same*, Mus. rep. 54 (for 1900) 1902. 3:601-31. 2pl. (phot.) map.
 Map of Long Island, 25.5x11.5cm.
 Kellogg. Feeding Habits and Growth of Venus mercenaria. Mus. bul. *In press.*
See also Unionidae.
- Lamellibranchiata (paleozoic).** Beecher. A Spiral Bivalve Shell from the Waverly Group of Pennsylvania. Mus. rep. 39 (for 1885) 1886. p.161-63. pl.12.
 Beecher. List of Genera illustrated on the Plates of the Report of the State Geologist for 1882. Mus. rep. 41 (for 1887) 1888. p.385.
 Beecher. List of Genera not illustrated on the Plates of the Geologist's Report of 1882, together with the author's name and references to the earliest publication of the same. Mus. rep. 41 (for 1887) 1888. p.385-87.

Lamellibranchiata (paleozoic) (continued)

- Clarke. Oriskany Species of Becraft Mountain. Mus. mem. 3. 1900. p.31-37. *Same*, Mus. rep. 53 (for 1899) 1901. 2:31-37.
- Clarke. Value of Amnigenia as an Indicator of Freshwater Deposits during the Devonian of New York, Ireland and the Rhineland. Mus. bul. 49. 1901. p.199-203. pl.11.
- Clarke. Type Specimens in New York State Museum. Mus. bul. 65. *In press*.
- Clarke. Naples Fauna in Western New York. Mus. mem. 6. *In press*.
- Grabau. Lamellibranchiata of Hamilton Group. Geol. rep. 16 (for 1896) 1899. p.250-61. *Same*, Mus. rep. 50 (for 1896) 1899. 2:250-61.
- Grabau. Pelecypoda of Niagara Region. Mus. bul. 45. 1901. p.206-10. *Same*, Mus. rep. 54 (for 1900) 1902. 4:206-10.
- Hall. Genus Tellinomya and Allied Genera. Mus. rep. 10 (for 1856) 1857. p.181-86.
- Hall. Lamellibranchiata of Lower Helderberg Group. Pal. N. Y. 1859. 3:263-91.
- Hall. Lamellibranchiata of Oriskany Sandstone. Pal. N. Y. 1859. 3:465-67.
- Hall. Notice of the Genera Ambonychia, Palaearca and Megambonia. Mus. rep. 12 (for 1858) 1859. p.8-14, 110.
- Hall. Note on the Genus Cypricardites. Mus. rep. 15 (for 1861) 1862. p.192-93.
- Hall. Lamellibranchiata of Niagara Group. Mus. rep. 20 (for 1866) 1867. p.336-41.
- Hall. Lamellibranchiata of Niagara Group in Central Indiana. Mus. rep. 28 (for 1874) 1879. p.171-74.
- Hall. Classification of the Lamellibranchiata. Geol. rep. 1 (for 1881) 1884. p.8-15, 11pl.
- Hall. Preliminary Notice of the Lamellibranchiate Shells of the Upper Helderberg, Hamilton and Chemung Groups (preparatory for the Palaeontology of New York). Mus. rep. 35 (for 1881) 1884. p.215-406g.
- Hall. Lamellibranchiata: Monomyaria of the Upper Helderberg, Hamilton and Chemung Groups. Pal. N. Y. 1884. v.5. pt1. 268p. 45pl.; Dinyaria of the Upper Helderberg, Hamilton, Portage and Chemung Groups. Pal. N. Y. 1885. v.5. pt1. p.269-561. 51pl.
- Letson. Pelecypoda of Niagara River Gravels. Mus. bul. 45. 1901. p.245-52. *Same*, Mus. rep. 54 (for 1900) 1902. 4:245-52.
- Ruedemann. New Species of Pelecypoda of Hudson River Beds near Albany. Mus. bul. 42. 1901. p.572-73. *Same*, Mus. rep. 54 (for 1900) 1902. 3:572-73.
- Ruedemann. Pelecypoda of Trenton Conglomerate of Rysedorph Hill. Mus. bul. 49. 1901. p.28-29.
- Wood. Pelecypoda of Marcellus (Stafford) Limestones of Lancaster, Erie Co. N. Y. Mus. bul. 49. 1901. p.167-68.
- Land slides.** Mather. Land Slides. Geol. rep. 1st dist. (for 1836) 1837. p.82-83 (ed. 2, p.84-85). Geol. N. Y. pt1, 1843. p.32-37, 634-36.
- Larder beetle.** Felt. Larder Beetle. Ag. Soc. Trans. 59 (for 1899) 1900. p.300.
- Lintner. Bacon Beetle. Ent. rep. 6 (for 1889) 1890. p.119-23. *Same*, Mus. rep. 43 (for 1889) 1890. p. 119-23.
- Laumontite.** Beck. Laumonite. Min. N. Y. 1842. p.351. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.141.
- Laurentian limestones.** Hunt. On the Mineralogy of the Laurentian Limestones of North America. Mus. rep. 21 (for 1867) 1871. p.47-98. *See also* Crystalline rocks.

- Laurentian system.** Hall, C. E. Laurentian Magnetic Iron Ore Deposits of Northern New York. Mus. rep. 32 (for 1878) 1879. p.133-40. *Same*, Geol. rep. 4 (for 1884) 1885. p.23-34, with geol. map of Essex co. 48x40.5cm.
- Lead.** Beck. Ores of Lead. Min. rep. (for 1836) 1837. p.51-58 (ed. 2, p.53-60); (for 1838) 1839. p.49-53; (for 1840) 1841. p.6-8. Min. N. Y. 1842. p.44-52, 412-18.
- Emmons.** Lead, Sulphuret of Lead. Geol. rep. 2d dist. (for 1836) 1837. p.124-26 (ed. 2, p.126-28).
- Emmons.** Lead in St Lawrence County. Geol. rep. 2d dist. (for 1836) 1837. p.124-26 (ed. 2, p.126-28); (for 1837) 1838. p.210-12. Geol. N. Y. pt2. 1842. p.354-60.
- Mather.** Lead Ore in Shawangunk Mountain. Geol. N. Y. pt1. 1843. p.358-62.
- Nason.** Lead Mines at Ellenville. Geol. rep. 13 (for 1893) 1894. p.397-98. *Same*, Mus. rep. 47 (for 1893) 1894. p.591-92.
- Ries.** Lead of Orange County. Geol. rep. 15 (for 1895) 1897. p.469-70. *Same*, Mus. rep. 49 (for 1895) 1898. 2:469-70.
- Vanuxem.** Ores of Montgomery County. Geol. rep. 3d dist. (for 1837) 1838. p.263-66.
- Whitlock.** Lead. Mus. bul. 58. 1902. p.52, 85, 118, 119, 125, 126, 128-29.
See also Galena.
- Leaf bug.** Lintner. Four-lined Leaf Bug. Ent. rep. 1 (for 1881) 1882. p.271-81.
- Lenticular iron ore,** *see* Clinton ores.
- Lentinus.** Peck. Genus Lentinus. Mus. rep. 23 (for 1869) 1873. p.126-27.
- Leopard moth.** Felt. Leopard Moth. Forest, Fish and Game Com. rep. 4 (for 1898) 1899. p.380-84.
- Lintner.** Leopard Moth. Ent. rep. 9 (for 1892) 1893. p.426-27. *Same*, Mus. rep. 46 (for 1892) 1893. p.426-27.
- Lepidolite.** Whitlock. Lepidolite. Mus. bul. 58. 1902. p.111.
- Lepidoptera.** Additions to Collection. Ent. rep. 3, p.140-41; 4, p.205-6; 5, p.324; 6, p.186-87; 7, p.381-82; 8, p.296-97; 9, p.461-62; 10, p.509-10, 515-16; 11, p.284-85; 12, p.359-60; 13, p.371-72; 14, p.257-59; 15, p.607-13; 16, p.1038-42; 17, p.815-19; 18, p.172-74.
For dates of reports, *see* List of publications, p.264.
- Felt.** Species Treated. Ent. rep. 14 (for 1898) 1898. p.163-213. *Same*, Mus. rep. 52 (for 1898) 1900. 1:163-213.
- — — Ent. rep. 16 (for 1900) 1901. p.955-66. *Same*, Mus. rep. 54 (for 1900) 1902. 2:955-66.
- — — Ent. rep. 18 (for 1902) p.94-99.
- — — Forest, Fish and Game Com. rep. 4 (for 1898) 1899. p.368-85.
- — — Forest, Fish and Game Com. rep. 5 (for 1899) 1900. p.359-71.
- Lintner.** Species Treated. Mus. rep. 23 (for 1869) 1873. p.137-216.
- — — Mus. rep. 24 (for 1870) 1872. p.109-70.
- — — Mus. rep. 26 (for 1872) 1874. p.117-92.
- — — Mus. rep. 27 (for 1873) 1875. p.137-48.
- — — Mus. rep. 30 (for 1876) 1878. p.141-248.
Including paper on Adirondack Lepidoptera.
- — — Ent. rep. 1 (for 1881) 1882. p.81-167, 333-41.
- — — Ent. rep. 2 (for 1882 & 1883) 1885. p.57-110, 213-17.
- — — Ent. rep. 3 (for 1886) 1887. p.90-96. *Same*, Mus. rep. 40 (for 1886) 1887. p.90-96.
- — — Ent. rep. 4 (for 1887) 1888. p.48-60, 151-54. *Same*, Mus. rep. 41 (for 1887) 1888. p.168-80, 271-74.
- — — Ent. rep. 5 (for 1888) 1889. p.174-219. *Same*, Mus. rep. 42 (for 1888) 1889. p.174-219.

Lepidoptera (*continued*)

- — Ent. rep. 7 (for 1890) 1891. p.225-28, 302-7. *Same*, Mus. rep. 44 (for 1890) 1892. p.225-28, 302-7.
- — Ent. rep. 8 (for 1891) 1893. p.129-40, 169-72. *Same*, Mus. rep. 45 (for 1891) 1892. p.129-40, 169-72.
- — Ent. rep. 10 (for 1894) 1895. p.369-86. *Same*, Mus. rep. 48 (for 1894) 1895. 1:369-86 (1st paging).
- — Ent. rep. 11 (for 1895) 1896. p.124-62. *Same*, Mus. rep. 49 (for 1895) 1897. 1:124-62.
- — Ent. rep. 12 (for 1896) 1897. p.183-222. *Same*, Mus. rep. 50 (for 1896) 1898. 1:183-222 (1st paging).
- — Ent. rep. 13 (for 1897) 1898. p.342-51. *Same*, Mus. rep. 51 (for 1897) 1899. 1:342-51.
- Lintner. Otto Meske's Collection of Lepidoptera. *Alb. Inst. Trans.* 1874. 8:215-20.

Species

The following list of species includes only the more important accounts by Fitch, in *Ag. Soc. Trans.* 14, 15; by Lintner in *Ent. Contrib.* 1-4 and *Ent. rep.* 1-13, *Mus. bul.* 6; by Felt in *Ent. rep.* 14-18, *Ag. Soc. Trans.* 59, *Forest, Fish and Game Com. reports*, *Mus. bul.* 27, 37; by Speyer in *Mus. rep.* 23. For dates of reports and bulletins *see* p.241, 264.

- Acidalia lacteola*. *Mus. rep.* 30, p.224.
- Alypia octomaculata*. *Ent. rep.* 5, p.179-83. *Same*, *Mus. rep.* 42, p.179-83.
- Anisota senatoria*. *Ent. rep.* 5, p.192-200. *Same*, *Mus. rep.* 42, p.192-200.
- *Forest, Fish and Game Com. rep.* 7. *In press.*
- Bucculatrix pomifoliella*. *Ent. rep.* 1, p.157-62.
- Cacoecia fervidana*. *Forest, Fish and Game Com. rep.* 7. *In press.*
- Carpocapsa pomonella*. *Ent. rep.* 9, p.338-42. *Same*, *Mus. rep.* 46, p.338-42.
- *Ag. Soc. Trans.* 59, p.276-77.
- Cerura aquilonaris*. *Mus. rep.* 30, p.197-99.
- Cerura candida*. *Mus. rep.* 30, p.199-200.
- Cerura occidentalis*. *Mus. rep.* 30, p.194-95.
- Cidaria packardata*. *Mus. rep.* 30, p.225-26.
- Clisiocampa americana*. *Ent. rep.* 14, p.117-90. (*Mus. bul.* 23). *Same*, *Mus. rep.* 52, 1:177-90.
- *Mus. bul.* 27, p.46-48. *Same*, *Mus. rep.* 53, 1:46-48.
- *Ag. Soc. Trans.* 59, p.271-72.
- Clisiocampa disstria*. *Ent. rep.* 14, p.191-201. (*Mus. bul.* 23). *Same*, *Mus. rep.* 52, 1:191-201.
- *Forest, Fish and Game Com. rep.* 4, p.374-80.
- *Ag. Soc. Trans.* 59, p.275-76.
- *Ent. rep.* 16, p.994-98. (*Mus. bul.* 36). *Same*, *Mus. rep.* 54, 2:994-98.
- Coleophora malivorella*. *Ent. rep.* 1, p.163-67.
- Cossus reticulatus*. *Mus. rep.* 30, p.242-43.
- Cossus undosus*. *Mus. rep.* 30, p.243-45.
- Cucullia intermedia*. *Mus. rep.* 23, p.217-22.
- Cucullia lucifuga*. *Mus. rep.* 23, p.217-22.
- Cucullia serraticornis*. *Mus. rep.* 26, p.174-76.
- Cucullia speyeri*. *Mus. rep.* 26, p.168-74.
- Diastictis ribearia*. *Ent. rep.* 12, p.310-11. *Same*, *Mus. rep.* 50, 1:310-11 (1st paging).
- *Mus. bul.* 37, p.13-14. *Same*, *Mus. rep.* 54, 3:13-14.
- Ellema pineum*. *Mus. rep.* 23, p.169-71.
- Eudamus epigena*. *Mus. rep.* 30, p.181-82.

Lepidoptera (*continued*)

- Euproctis chrysorrhoea*. Ent. rep. 18, p.94-99.
Euvanessa antiopa. Forest, Fish and Game Com. rep. 5, p.368-71.
Heliothis armiger. Ent. rep. 1, p.116-26.
Hemileuca maia. Mus. rep. 23, p.137-53.
 — Forest, Fish and Game Com. rep. 7. *In press*.
Hydroecia nitela. Ent. rep. 1, p.110-16.
Hyphantria cunea. Forest, Fish and Game Com. rep. 5, p.363-68.
Hypocala hilli. Mus. rep. 30, p.217-19.
Leucania unipuncta. Ent. rep. 12, p.190-214. *Same*, Mus. rep. 50, 1:190-214 (1st paging).
Lycaena lotis. Mus. rep. 30, p.169-70.
Mamestra picta. Ent. rep. 5, p.206-10. *Same*, Mus. rep. 42, p.206-10.
 — Ent. rep. 14, p.201-7. (Mus. bul. 23). *Same*, Mus. rep. 52, 1:201-7.
Mecyna reversalis. Ent. rep. 11, p.142-45. *Same*, Mus. rep. 49, 1:142-45.
Melitaea nycteis. Mus. rep. 23, p.158-59.
Melitaea phaeton. Mus. rep. 23, p.154-57.
Melitta satyriniformis. Ent. rep. 2, p.57-68.
Nisoniades afranius. Mus. rep. 30, p.175-76.
Nisoniades ausonius. Mus. rep. 23, p.166-68.
Nisoniades icelus. Mus. rep. 23, p.162-64.
Nisoniades lucilius. Mus. rep. 23, p.164-66.
Nisoniades pacuvius. Mus. rep. 30, p.172-73.
 Noctuidae (family). Mus. bul. 6, 36p.
Notolophus leucostigma. Ent. rep. 2, p.68-89.
 — Ent. rep. 11, p.124-26. *Same*, Mus. rep. 49, 1:124-26.
 — Ent. rep. 14, p.163-76. (Mus. bul. 23). *Same*, Mus. rep. 52, 1:163-76.
 — Mus. bul. 27, p.41-44. *Same*, Mus. rep. 53, 1:41-44.
 — Forest, Fish and Game Com. rep. 4, p.368-74.
Oxyptilus periscelidactylus. Ag. Soc. Trans. 14, p.843-47 (rep. 1. sep. ed. p.139-43).
 — Ent. rep. 12, p.218-22. *Same*, Mus. rep. 50, 1:218-22 (1st paging).
Pamphila osceola. Mus. rep. 30, p.170-71.
Peridroma saucia. Ent. rep. 5, p.200-6. *Same*, Mus. rep. 42, p.200-6.
Pieris oleracea. Mus. rep. 23, p.160-61.
Porthetria dispar. Ent. rep. 9, p.422-26. *Same*, Mus. rep. 46, p.422-26.
 — Ent. rep. 16, p.955-62. (Mus. bul. 36). *Same*, Mus. rep. 54, 2:955-62.
Psilura monacha. Ent. rep. 18, p.111-13.
Pyrallis costalis. Ent. rep. 11, p.145-51. *Same*, Mus. rep. 49, 1:145-51.
Retinia comstockiana. Forest, Fish and Game Com. rep. 7. *In press*.
Retinia frustrana. Forest, Fish and Game Com. rep. 7. *In press*.
Sanninoidea exitiosa. Ag. Soc. Trans. 14, p.812-21 (rep. 3. sep. ed. p.108-17).
 — Ent. rep. 8, p.181-86. *Same*, Mus. rep. 45, p.181-86.
Sitotroga cerealella. Ent. rep. 2, p.102-10.
 — Ent. rep. 10, p.377-86. *Same*, Mus. rep. 48, 1:377-86 (1st paging).
Thyridopteryx ephemeraeformis. Ent. rep. 1, p.81-87.
 — Forest, Fish and Game Com. rep. 5, p.359-63.
Tineola biselliella. Ag. Soc. Trans. 59, p.297-98.
Tischeria malifoliella. Ent. rep. 1, p.160-62. *Same*, Mus. rep. 49, 1:160-62.
Xylina lepida. Mus. rep. 30, p.207-8.

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Xylina unimoda. Mus. rep. 30. p.208-9.

Ypsolophus pometellus. Ag. Soc. Trans. 15, p.453-65 (rep. 2. sep. ed. p.221-33).

— Ent. rep. 16, p.962-66. (Mus. bul. 36). *Same*, Mus. rep. 54, 2:962-66.

Zeuzera pyrina. Ent. rep. 9, p.426-27. *Same*, Mus. rep. 46, p.426-27.

— Forest, Fish and Game Com. rep. 4, p.380-84.

Lepiota. Peck. New York Species of *Lepiota*. Mus. rep. 35 (for 1881) 1884. p.150-64.

Leucite. Whitlock. *Leucite*. Mus. bul. 58. 1902. p.91.

Leucopyrite. Beck. *Leucopyrite*. Min. N. Y. 1842. p.451.

Lewis county. Beck. *Mineralogy*. Min. rep. (for 1839) 1840. p.72-74.

Peck. Plants of Bonaparte Swamp, Lewis County. Bot. rep. 53 (for 1899) 1900. p.858-61. *Same*, Mus. rep. 53 (for 1899) 1901. 1:858-61.

Ries. Limestones. Geol. rep. 17 (for 1897) 1899. p.439-41. *Same*, Mus. rep. 51 (for 1897) 1899. 2:439-41.

— — *revised*. Mus. bul. 44. 1901. p.790-92. *Same*, Mus. rep. 54 (for 1900) 1902. 3:790-92.

Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.115-16; 10. 1890. p.247.

— — *revised* by Merrill. Mus. bul. 15. 1895. p.440. *Same*, Mus. rep. 48 (for 1894) 1895. 1:440 (2d paging).

Vanuxem. Lewis County. Geol. rep. 3d dist. (for 1839) 1840. p.356-67. Geol. N. Y. pt.3, 1842. p.264-70.

White. Report on the Relations of the Ordovician and Eo-Silurian Rocks in Portions of Herkimer, Oneida and Lewis Counties. Mus. rep. 51 (for 1897) 1899. 1:21-54. pl. (phot.) 2 maps.

Map of the vicinity of Frankfort hill, 31.5x16.5cm.

Map of the Precambrian border in Oneida and Lewis counties, 49.5x16cm.

Libethenite. Whitlock. *Libethenite*. Mus. bul. 58. 1902. p.120.

Library of museum. Additions. Mus. rep. 10, p.189-90; 20 *rev. ed.*, p.20; 22, p.12-16; 23, p.24-26; 24, p.30-31; 25, p.23-26; 26, p.20-24; 27, p.33-40; 28, p.26-28; 29, p.23-28; 30, p.17-22; 31, p.14-17; 32, p.13-16; 34, p.20-23; 35, p.16-18; 36, p.19-20; 37, p.29-31; 38, p.18-20; 39, p.19-24; 40, p.28-32; 41, p.35-43; 42, p.65-74; 43, p.37-47.

For dates of Mus. rep. see List of publications, p.241.

Catalogue of Books. Mus. rep. 20 (for 1866) 1867. p.59-61.

Lignite. Beck. *Lignite*. Min. rep. (for 1836) 1837. p.59 (ed. 2, p.61); (for 1838) 1839. p.16. Min. N. Y. 1842. p.191-92.

Mather. *Lignite and Fossil Wood*. Geol. N. Y. pt.1. 1843. p.264-70.

Merrill. Localities. Mus. bul. 15. 1895. p.582. *Same*, Mus. rep. 48 (for 1894) 1895. 1:582 (2d paging).

— — Mus. bul. 19. 1898. p.234-35. *Same*, Mus. rep. 51 (for 1897) 1899. 1:234-35.

Lime. Beck. *Lime*. Min. N. Y. 1842. p.214-48.

Beck. *Manufacture of Lime*. Min. N. Y. 1842. p.74-75.

Conrad. Use of Lime as a Manure. Geol. rep. 3d dist. (for 1836) 1837. p.171-72 (ed. 2, p.173-74).

Hall. *Lime in Erie County*. Geol. rep. 4th dist. (for 1840) 1841. p.159-61. Geol. N. Y. pt.4. 1843. p.472.

Mather. *Lime and Hydraulic Cement*. Geol. rep. 1st dist. (for 1839) 1840. p.239-44. Geol. N. Y. pt.1. 1843. p.328-30.

Mather. *Lime, whence derived*. Geol. N. Y. pt.1. 1843. p.77-79.

Mather. *Nitrates of Lime and Potassa*. Geol. N. Y. pt.1. 1843. p.85.

Merrill. *Lime and Cement*. Mus. bul. 19. 1898. p.222. *Same*, Mus. rep. 51 (for 1897) 1899. 1:222.

Lime (*continued*)

Merrill. Lime and Cement; Directory of Producers. Mus. bul. 15. 1895. p.519-26. *Same*, Mus. rep. 48 (for 1894) 1895. 1:519-26 (2d paging).

Nason. Lime Burning in Ulster County. Geol. rep. 13 (for 1893) 1894. p.396. *Same*, Mus. rep. 47 (for 1893) 1894. p.590.

Ries. Lime. Geol. rep. 17 (for 1897) 1899. p.375-89. *Same*, Mus. rep. 51 (for 1897) 1899. 2:375-89.

Ries. Lime and Cement Industries of New York. Mus. bul. 44. 1901. p.637-968. pl. (phot.) maps. *Same*, Mus. rep. 54 (for 1900) 1902. 3:637-968. pl. (phot.) maps.

Ries. Directory of Producers. Mus. bul. 44. 1901. p.839-48. *Same*, Mus. rep. 54 (for 1900) 1902. 3:839-48.

Ries. Lime of Orange County. Geol. rep. 15 (for 1895) 1897. p.469. *Same*, Mus. rep. 49 (for 1895) 1898. 2:469.

See also Calcareous minerals; Chlorid of lime; Gypsum; Niter.

Limestone springs. Mather. Limestone Springs. Geol. N. Y. pt1, 1843. p.111-13.

Limestones. Eckel. Quarries in Southeastern New York. Geol. rep. 20 (for 1900) 1902. p.169-76. *Same*, Mus. rep. 54 (for 1900) 1902. 1:169-76.

Emmons. Transition, or Blue Limestone. Geol. rep. 2d dist. (for 1836) 1837. p.119-20 (ed. 2, p.121-22).

Emmons. Gneiss, Hornblende and Granular Limestone. Geol. rep. 2d dist. (for 1836) 1837. p.113-16 (ed. 2, p.115-18).

Emmons. Transition Rocks of Essex; Limestones, Shales, etc. Geol. rep. 2d dist. (for 1837) 1838. p.226-30.

Hall. Limestones of Orleans County. Geol. rep. 4th dist. (for 1837) 1838. p.358-59.

Hall. Limestones not Metamorphic, Compact or Subcrystalline; their Geological and Geographical Distribution. Mus. rep. 39 (for 1885) 1886. p.194-95.

Horton. Limestones of Orange County. Geol. rep. 1st dist. (for 1838) 1839. p.147-52.

Lincoln. Limestone of Seneca County. Geol. rep. 14 (for 1894) 1895. p.111. *Same*, Mus. rep. 48 (for 1894) 1895. 2:111.

Mather. Limestones and Marbles of Columbia and Dutchess Counties. Geol. rep. 1st dist. (for 1837) 1838. p. 165-72.

Mather. Limestone of New York, Westchester and Putnam Counties. Geol. rep. 1st dist. (for 1838) 1839. p.89-98.

Mather. Red Conglomerate Limestone. Geol. rep. 1st dist. (for 1838) 1839. p.126-27. Geol. N. Y. pt1. 1843. p.288-89.

Mather. Limestone of Orange and Rockland Counties. Geol. rep. 1st dist. (for 1838) 1839. p.130-31.

Mather. Compact Grey Limestone. Geol. N. Y. pt1. 1843. p.288.

Mather. Metamorphic Limestones. Geol. N. Y. pt1. 1843. p.439-87.

Merrill. Directory of Quarrymen. Mus. bul. 15. 1895. p.486-93. *Same*, Mus. rep. 48 (for 1894) 1895. 1:486-93 (2d paging).

Merrill. Road Materials. Mus. bul. 17. 1897. p.105. *Same*, Mus. rep. 50 (for 1896) 1898. 1:105 (2d paging).

— — — Mus. bul. 19. 1898. p.205. *Same*, Mus. rep. 51 (for 1897) 1899. 1:205.

Nason. Limestone for Building in Albany County. Geol. rep. 13 (for 1893) 1894. p.279. *Same*, Mus. rep. 47 (for 1893) 1894. p.473.

Ries. Limestones of New York and their Economic Value. Geol. rep. 17 (for 1897) 1899. p.355-467. *Same*, Mus. rep. 51 (for 1897) 1899. 2:355-467.

Limestones (*continued*)

- Ries. Lime and Cement Industries of New York, with analyses. Mus. bul. 44. 1901. p.637-968. pl. (phot.) maps. *Same*, Mus. rep. 54 (for 1900) 1902. 3:637-968. pl. (phot.) maps.
 Map of New York State showing location of limestone quarries and marl deposits and manufactories of natural and Portland cement (uncolored) 72x74cm.
 Map of New York State showing distribution of limestone (uncolored) 44.5x35cm.
- Smock. Limestones. Mus. bul. 3. 1888. p.20-22; 10. 1890. p.207-13.
 ——— *revised* by Merrill. Mus. bul. 15. 1895. p.423-29. *Same*, Mus. rep. 48 (for 1894) 1895. 1:423-29 (2d paging).
 ——— *revised* by Merrill. Mus. bul. 19. 1898. p.196-203. *Same*, Mus. rep. 51 (for 1897) 1899. 1:196-203.
- Smock. Quarries. Mus. bul. 3. 1888. p.94-134; 10. 1890. p.238-55.
 ——— *revised* by Merrill. Mus. bul. 15. 1895. p.432-48. *Same*, Mus. rep. 48 (for 1894) 1895. 1:432-48 (2d paging).
- Smock. Tests; Durability; Causes of Decay. Mus. bul. 10. 1890. p.364-89.
- Vanuxem. Limestone, Marl and Tufa. Geol. rep. 4th dist. (for 1836) 1837. p.191-93 (ed. 2, p. 193-95).
- Vanuxem. Upper Limestone. Geol. rep. 3d dist. (for 1837) 1838. p.272, 285.
- See also* Carboniferous system; Crystalline rocks; Primitive limestone; Waterlime; *also names of formations*, i. e. Onondaga limestone; Tully limestone, etc.
- Limonite.** Beck. Limonite: Hydrous Peroxide of Iron. Min. rep. (for 1836) 1837. p.33-39 (ed. 2, p.35-41); (for 1838) 1839. p.46. Min. N. Y. 1842. p.29-36, 386-87.
- Carr. Bog-ore. Geol. rep. 3d dist. (for 1839) 1840. p.386.
- Emmons. Bog Ore of St Lawrence County. Geol. rep. 2d dist. (for 1837) 1838. p.208-9. Geol. N. Y. pt2. 1842. p.348-49.
- Emmons. Hematitic Iron, or Limonite. Geol. N. Y. pt2. 1842. p.161-62.
- Hall. Bog Ore. Geol. rep. 2d dist. (for 1836) 1837. p.138-42 (ed. 2, p.140-44).
- Hall. Bog Iron Ore. Geol. rep. 4th dist. (for 1838) 1839. p.335.
- Hall. Bog Ore of Niagara County. Geol. rep. 4th dist. (for 1837) 1838. p.367. Geol. N. Y. pt4. 1843. p.447.
- Hall. Bog Iron of Orleans County. Geol. rep. 4th dist. (for 1837) 1838. p.355. Geol. N. Y. pt4. 1843. p.437-38.
- Hall. Bog and Argillaceous Iron of Wayne County. Geol. N. Y. pt4. 1843. p.419.
- Mather. Bog Ore. Geol. rep. 1st dist. (for 1836) 1837. p.72-73 (ed. 2, p.74-75); (for 1839) 1840. p.224-25. Geol. N. Y. pt1. 1843. p.119-20, 236-37.
- Mather. Bog Ore of Columbia and Dutchess Counties. Geol. rep. 1st dist. (for 1837) 1838. p.156.
- Mather. Limonite in Putnam and Westchester Counties. Geol. rep. 1st dist. (for 1838) 1839. p.107-8.
- Mather. Limonite and Lead. Geol. rep. 1st dist. (for 1840) 1841. p.111-12.
- Mather. Limonite or Hematite Ore Beds. Geol. N. Y. pt1. 1843. p.488-98.
- Merrill. Localities in New York. Mus. bul. 15. 1895. p.543. *Same*, Mus. rep. 48 (for 1894) 1895. 1:543 (2d paging).
- Nason. Limonite of Ulster County. Geol. rep. 13 (for 1893) 1894. p.598. *Same*, Mus. rep. 47 (for 1893) 1894. p.592.
- Smock. Limonites of Dutchess and Columbia Counties. Mus. bul. 7. 1889. p.12-13, 52-61.
 ——— *revised* by Merrill. Mus. bul. 15. 1895. p.539-41. *Same*, Mus. rep. 48 (for 1894) 1895. 1:539-41 (2d paging).

Limonite (*continued*)

- — *revised* by Merrill. Mus. bul. 19. 1898. p.220-21. *Same*, Mus. rep. 51 (for 1897) 1899. 1:220-21.
- Smock. Limonite of Staten Island. Mus. bul. 7. 1889. p.61-62.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.541. *Same*, Mus. rep. 48 (for 1894) 1895. 1:541 (2d paging).
- — *revised* by Merrill. Mus. bul. 19. 1898. p.221. *Same*, Mus. rep. 51 (for 1897) 1899. 1:221.
- Vanuxem. Bog Ore, Limonite. Geol. N. Y. pt3. 1842. p.228-29.
- Whitlock. Limonite (brown hematite). Mus. bul. 58. 1902. p.77-78.
- Lithographing.** Ries. Lithographing. Geol. rep. 17 (for 1897) 1899. p.375. *Same*, Mus. rep. 51 (for 1897) 1899. 2:375.
- — Mus. bul. 44. 1901. p.660. *Same*, Mus. rep. 54 (for 1900) 1902. 3:660.
- Lithology.** Leeds. Lithology of the Adirondacks. Mus. rep. 30 (for 1876) 1878. p.79-109.
- Little Falls quadrangle.** Cushing. Pre-Cambrian Outlier at Little Falls. Geol. rep. 20 (for 1900) 1902. p.83-95. *Same*, Mus. rep. 54 (for 1900) 1902. 1:83-95.
- Cushing. Geology of the Vicinity of Littlefalls. Mus. bul. *In press*.
- Livingston county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.74-75.
- Bishop. Salt Wells of Western New York. Geol. rep. 5 (for 1885) 1886. p.12-47.
- Bishop. Natural Gas. Geol. rep. 17 (for 1897) 1899. p.20-22. *Same*, Mus. rep. 51 (for 1897) 1899. 2:20-22.
- Bishop. Oil and Gas. Geol. rep. 19 (for 1899) 1901. p.124-25. *Same*, Mus. rep. 53 (for 1899) 1901. 1:124-25.
- Dickinson. Bluestone Quarries. Mus. bul. 61. *In press*.
- Felt. Entomological reports from. Ent. rep. 15 (for 1899) 1900. p.562. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:562.
- — Ent. rep. 16 (for 1900) 1901. p.1012-13. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1012-13.
- — Ent. rep. 17 (for 1901) 1902. p.787. (Mus. bul. 53).
- — Ent. rep. 18 (for 1902). p.149. *In press*.
- Hall. Livingston County. Geol. rep. 4th dist. (for 1839) 1840. p.416-24. Geol. N. Y. pt4. 1843. p.459-64.
- Ries. Limestone Formations. Mus. bul. 44. 1901. p.792-93. *Same*, Mus. rep. 54 (for 1900) 1902. 3:792-93.
- Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.83-84, 88; 10. 1890. p.253, 274, 276.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.407-8, 409, 446. *Same*, Mus. rep. 48 (for 1894) 1895. 1:407-8, 409, 446 (2d paging).
- Livonia salt shaft.** Clarke. Fossils Found in the Livonia Salt Shaft. Geol. rep. 11 (for 1891) 1892. p.10-11, 54-55. *Same*, Mus. rep. 45 (for 1891) 1892. p.326-27, 370-71.
- — Geol. rep. 12 (for 1892) 1893. p.46-47. *Same*, Mus. rep. 46 (for 1892) 1893. p.192-94.
- Clarke. Succession of the Fossil Faunas in the Section of the Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p.131-58. *Same*, Mus. rep. 47 (for 1893) 1894. p.325-52.
- Clarke. New or Rare Species of Fossils from the Horizons of the Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p.159-89. 4pl. *Same*, Mus. rep. 47 (for 1893) 1894. p.353-83.
- Hall. Geological Work in Connection with the Livonia Salt Shaft. Geol. rep. 11 (for 1891) 1892. p.7-12. *Same*, Mus. rep. 45 (for 1891) 1892. p.323-28.

Livonia salt shaft (*continued*)

- — — Geol. rep. 12 (for 1892) 1893. p.13. *Same*, Mus. rep. 46 (for 1892) 1893. p.159.
- Hall. Livonia Salt Shaft, its History and Geological Relations, etc. Geol. rep. 13 (for 1893) 1894. p.11-20. diagrams. 2 maps. *Same*, Mus. rep. 47 (for 1893) 1894. p.203-14. diagrams. map,
Map showing area of New York covered by Onondaga salt group, 37x14.5cm.
Map showing salt-producing district of western New York, 34.5x21.5cm (in Geol. rep. only).
- Luther. Report on the Geology of the Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p.21-130. pl. (phot.) *Same*, Mus. rep. 47 (for 1893) 1894. p.215-324. pl. (phot.)
- Lizards**, *see* Reptiles.
- Llandeilo flags**. Conrad. Llandeilo Flags of Murchison. Pal. rep. (for 1837) 1838. p.114.
- Lockport**. Smock. Stone Construction in. Mus. bul. 10. 1890. p.351-52.
- Lockport dolomites**. Clarke, Ruedemann & Luther. Lockport Dolomites of Brockport and Medina Quadrangles. Mus. bul. 52. 1902. p.517-18, 520-21.
- Lockport group**, *see* Niagara group.
- Lockport limestone (Niagara)**. Clarke & Schuchert. Lockport Limestone. *See* New York series.
Conrad. Lockport Limestone. Pal. rep. (for 1839) 1840. p.202.
Grabau. Lockport (Niagara) Limestone in Niagara District. Mus. bul. 45. 1901. p.105-13. *Same*, Mus. rep. 54 (for 1900) 1902. 4:105-13.
^aHall. Lockport Limestone. Geol. rep. 4th dist. (for 1838) 1839. p.289.
Vanuxem. Lockport Limestone. Geol. rep. 3d dist. (for 1839) 1840. p.374.
See also Niagara limestone.
- Lockport marble**. Hall. Variegated Marble of Lockport. Geol. rep. 4th dist. (for 1837) 1838. p.370. Geol. N. Y. pt.4. 1843. p.448.
- Locusts**. Lintner. Red-legged Locust. Ent. rep. 10 (for 1894) 1895. p.439-45. *Same*, Mus. rep. 48 (for 1894) 1895. 1:439-45 (1st paging).
See also Orthoptera.
- Loganite**. Hunt. Loganite. Mus. rep. 21 (for 1867) 1871. p.80-81.
- Long Island**. Bean. Report on the Fishes of Long Island Collected in the Summer of 1898. Mus. rep. 52 (for 1898) 1900. 1:r92-111.
Bean. Report on the Fishes of Great South Bay, Long Island, Collected in the Summer of 1901. Mus. rep. 55 (for 1901). *In press*.
Emmons. Climate. Ag. N. Y. 1846. 1:20-21.
Hollick. Field Work during 1901 in the Cretaceous Beds of Long Island. Geol. rep. 21 (for 1901). *In press*.
Mather. Economic Geology of Queens, Kings and Richmond Counties. Geol. rep. 1st dist. (for 1837) 1838. p.122-42.
Mather. Encroachments of the Sea. Geol. N. Y. pt.1. 1843. p.19-23.
Mather. Marine Alluvial Detritus; Beaches, Shoals, Spits, etc. Geol. N. Y. pt.1. 1843. p.24-27, 234-35.
Mather. Sand Dunes. Geol. N. Y. pt.1. 1843. p.30-32.
Mather. Springs, Wells, etc. Geol. N. Y. pt.1. 1843. p.108-9, 145-48, 270-71.
Mather. Boulders and Drift. Geol. N. Y. pt.1. 1843. p.165-77.
Mather. Fossils. Geol. N. Y. pt.1. 1843. p.261-70.
Mather. Geological Map of Long and Staten Islands with the Environs of New York. 129x56.5cm. Geol. N. Y. pt.1. 1843. pl.1.
Mather. Valleys. Geol. N. Y. pt.1. 1843. p.271-72.

^aFirst use of term.

Long Island (*continued*)

- Ries. Clays. Mus. bul. 12. 1895. p.121-33. *Same*, Mus. rep. 48 (for 1894) 1895. 1:121-33 (2d paging).
- — — *revised*. Mus. bul. 35. 1900. p.595-607. *Same*, Mus. rep. 54 (for 1900) 1902. 2:595-607.
- — — *abridged* by Merrill. Mus. bul. 15. 1895. p.500-1. *Same*, Mus. rep. 48 (for 1894) 1895. 1:500-1 (2d paging).
- — — *abridged* by Merrill. Mus. bul. 19. 1898. p.212. *Same*, Mus. rep. 51 (for 1897) 1899. 1:212.
- Ries. Brick Yards. Mus. bul. 12. 1895. p.214-20, 242. *Same*, Mus. rep. 48 (for 1894) 1895. 1:214-20, 242 (2d paging).
- — — *revised*. Mus. bul. 35. 1900. p.733-42. *Same*, Mus. rep. 54 (for 1900) 1902. 2:733-42.
- Scott. Notes on the Marine Food Fishes of Long Island and a Biologic Reconnaissance of Cold Spring Harbor. Mus. rep. 54 (for 1900) 1902. p.214-29.
- See also* Kings county; Nassau county; Queens, Borough of; Queens county; Suffolk county.
- Long Island division.** Mather. Long Island Division. Geol. N. Y. pt1. 1843. p.248-78.
- Long Sting.** Felt. Lunate Long Sting. Forest Fish and Game Com. rep. 4 (for 1898) 1899. p.389-90.
- Lintner. Lunate Long Sting. Ent. rep. 4 (for 1887) 1888. p.35-41. *Same*, Mus. rep. 41 (for 1887) 1888. p.155-61.
- Lorraine beds (Frankfort; Hudson river; Pulaski).** Clarke & Schuchert. Lorraine beds. *See* New York series.
- Emmons. Lorraine Shales. Geol. N. Y. pt.2. 1842. p.119-23. Ag. N. Y. 1846. 1:124-25.
- Emmons. Lorraine Shales in Jefferson County. Geol. N. Y. pt2. 1842. p.401-5.
- Emmons. Fossils. Geol. N. Y. pt2. 1842. p.120, 402-5.
- Ruedemann. Lorraine Beds near Albany. Mus. bul. 42. 1901. p.513-19. *Same*, Mus. rep. 54 (for 1900) 1902. 3:513-19.
- See also* Frankfort slates; Hudson river group; Pulaski shales.
- Louisville.** Hall & Whitfield. Description of New Species of Fossils from the Vicinity of Louisville, Ky., and the Falls of the Ohio. Mus. rep. 24 (for 1870) 1872. p.181-200a. 5 plates in 27th report.
- Louisville limestones.** Hall. Louisville Limestones; Notes on the Hydraulic Beds and Associated Limestones at the Falls of the Ohio. Pal. N. Y. 1879. v.5. pt.2. p.139-47.
- Lower Helderberg group (Becraft; Coeymans; Helderberg; Helderbergian; New Scotland).** Clarke. Faunal Characters. Geol. rep. 8 (for 1888) 1889. p.82-91. *Same*, Mus. rep. 42 (for 1888) 1889. p.428-37.
- Girty. Revision of the Sponges and Coelenterates of the Lower Helderberg Group of New York. Geol. rep. 14 (for 1894) 1895. p.16, 259-309. 7pl. *Same*, Mus. rep. 48 (for 1894) 1895. 2:16, 259-309. 7pl.
- Hall. Lower Helderberg Group. Pal. N. Y. 1859. 3:33-36, 37-42.
- Hall. Catalogue of Species obtained at a Single Locality in Albany County. Pal. N. Y. 1859. 3:492-94.
- Hall. Organic Remains. Pal. N. Y. 1859. v.3. pt1. p.99-381; v.3. pt2. pl.
- Hall. Note on the Occurrence of *Astylospongia* in the Lower Helderberg Rocks. Mus. rep. 16 (for 1862) 1863. p.69-70.
- Hall. Descriptions of Bryozoa and Corals of the Lower Helderberg Group. Mus. rep. 26 (for 1872) 1874. p.93-115.
- — — *revised*. Mus. rep. 32 (for 1878) 1879. p.141-76.

Lower Helderberg group (*continued*)

- — 33 Plates and Explanations illustrating Corals and Bryozoans of Upper and Lower Helderberg Groups. Geol. rep. 2 (for 1882) 1883.
- Hall. The Niagara and Lower Helderberg Groups; their Relations and Geographical Distribution in the United States and Canada. Mus. rep. 27 (for 1873) 1875. p.117-31. map 70x50cm.
- Hall. Some Remarkable Crinoidal Forms from the Lower Helderberg Group. Mus. rep. 28 (for 1874) 1879. p.205-10. pl.35-37.
- Hall & Simpson. Corals and Bryozoa of the Lower Helderberg Group. Pal. N. Y. 1887. 6:1-68. pl.1-24.
- Hall. Description of New Species of Fenestellidae of the Lower Helderberg, with explanation of plates illustrating species of the Hamilton group. Mus. rep. 41 (for 1887) 1888. p.393-94. pl.8-15.
- Lincklaen. Lower Helderberg Limestones. Fossils. Mus. rep. 14 (for 1860) 1861. p.58-59.
- Lincoln. Lower Helderberg Group. Geol. rep. 14 (for 1894) 1895. p.87. *Same*, Mus. rep. 48 (for 1894) 1895. 2:87.
- Luther. Lower Helderberg Group in Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p.48. *Same*, Mus. rep. 47 (for 1893) 1894. p.242.
- Luther. Lower Helderberg Group of Onondaga County. Geol. rep. 15 (for 1895) 1897. p.267-74. *Same*, Mus. rep. 49 (for 1895) 1898. 2:267-74.
- Merrill. Lower Helderberg Group. Mus. bul. 19. 1898. p.157-58. *Same*, Mus. rep. 51 (for 1897) 1899. 1:157-58.
- Smock. Lower Helderberg Group. Mus. bul. 3. 1888. p.22; 10. 1890. p.212.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.427-28. *Same*, Mus. rep. 48 (for 1894) 1895. 1:427-28 (2d paging).
- — *revised* by Merrill. Mus. bul. 19. 1898. p.201. *Same*, Mus. rep. 51 (for 1897) 1899. 1:201.
- Smock. Quarries. Mus. bul. 3. 1888. p.94-134; 10. 1890. p.238-55.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.432-47. *Same*, Mus. rep. 48 (for 1894) 1895. 1:432-47 (2d paging).
- Williams. Note on the Lower Helderberg Rocks of Cayuga Lake. Geol. rep. 6 (for 1886) 1887. p.10-12.
- See also* Becraft limestone; Coeymans limestone; Helderberg limestones; Helderbergian; New Scotland limestones.
- Lower Pentamerus limestone.** *See* Coeymans limestone; Pentamerus limestone.
- Lower shaly beds.** Darton. Lower Shaly Beds. Geol. rep. 13 (for 1893) 1894. p.213. *Same*, Mus. rep. 47 (for 1893) 1894. p.407.
- Darton. Lower Shaly Limestone of Ulster County. Geol. rep. 13 (for 1893) 1894. p.304-5. *Same*, Mus. rep. 47 (for 1893) 1894. p.498-99.
- Lower Silurian (Champlainic; Ordovician).** Cumings. Lower Silurian System of Eastern Montgomery County, N. Y. Mus. bul. 34. 1900. p.415-68, 4pl. (phot.) map. *Same*, Mus. rep. 54 (for 1900) 1902. 1:415-68, 4pl. (phot.) map.
- Geologic map of Amsterdam quadrangle, 44x32.5cm.
- Hall. Organic Remains. Pal. N. Y. v.1. 1847.
- Merrill. Lower Silurian System. Mus. bul. 19. 1898. p.146-50. *Same*, Mus. rep. 51 (for 1897) 1899. 1:146-50.
- Merrill. Life of the Lower Silurian. Mus. bul. 19. 1898. p.150. *Same*, Mus. rep. 51 (for 1897) 1899. 1:150.
- Prosser & Cumings. Sections and Thickness of the Lower Silurian Formations on West Canada Creek and in the Mohawk Valley. Geol. rep. 15 (for 1895) 1897. p.23-24, 615-59. pl. (phot.) *Same*, Mus. rep. 49 (for 1895) 1898. 2:23-24, 615-59. pl. (phot.)

Lower Silurian (*continued*)

White. Report on the Relations of the Ordovician and Eo-Silurian Rocks in Portions of Herkimer, Oneida and Lewis Counties. Mus. rep. 51 (for 1897) 1899. 1:r21-54. pl. (phot.) 2 maps.

Map of the vicinity of Frankfort hill, 31.5x16.5cm.

Map of the Precambrian border in Oneida and Lewis counties, 49.5x16cm.

See also Champlainic; also names of subdivisions; also names of classes of fossils, i. e. Brachiopoda, Cephalopoda, etc.

Lowville limestone (*Birdseye*). ^aClarke & Schuchert. Lowville Limestone. Mus. mem. 3. 1900. p.11. *Same*, Mus. rep. 53 (for 1899) 1901. 2:11.

See also Birdseye limestone.

Loxoclase. Beck. Loxoclase. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.151-52. See also Orthoclase.

Ludlow rocks. Conrad. Ludlow Rocks of Murchison. Pal. rep. (for 1837) 1838. p.110.

Conrad. Lower Ludlow Rocks. Pal. rep. (for 1839) 1840. p.203; (for 1840) 1841. p.31.

See also Chemung group; Hamilton group.

Ludlowville shales. ^bHall. Ludlowville Shales. Geol. rep. 4th dist. (for 1838) 1839. p.298. Geol. N. Y. pt.4. 1843. p.187.

Hall. Ludlowville Shale of Genesee County. Geol. rep. 4th dist. (for 1839) 1840. p.390, 429. Geol. N. Y. pt.4. 1843. p.467.

Hall. Ludlowville Shale in Livingston County. Geol. rep. 4th dist. (for 1839) 1840. p.421. Geol. N. Y. pt.4. 1843. p.462.

Luther. Ludlowville Shales in Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p.44. *Same*, Mus. rep. 47 (for 1893) 1894. p.238.

Luther. Ludlowville Shales of Onondaga County. Geol. rep. 15 (for 1895) 1897. p.281. *Same*, Mus. rep. 49 (for 1895) 1898. 2:281.

Wright. Ludlowville Shale in Yates County. Mus. rep. 35 (for 1881) 1884. p.206.

See also Erie division; Hamilton group.

Lycoperdon. Peck. New York Species of Lycoperdon. Mus. rep. 32 (for 1878) 1879. p.58-72.

Peck. United States Species of Lycoperdon. Alb. Inst. Trans. 1879. 9:285-318.

Madison county. Beck. Mineralogy. Min. rep. (for 1839) 1840. p.75-76.

Clarke. Agoniatite Limestone. Mus. bul. 49. 1901. p.117-19.

Evans. A General View and Agricultural Survey. Ag. Soc. Trans. 11 (for 1851) 1852. p.658-777.

Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.562-63. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:562-63.

— Ent. rep. 16 (for 1900) 1901. p.1013. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1013.

Prosser. Geologic Map of Part of. Geol. rep. 15 (for 1895) 1897. facing p.87. *Same*, Mus. rep. 49 (for 1895) 1898. v.2, facing p.87.

Ries. Brick Yards. Mus. bul. 12. 1895. p.199, 212, 248. *Same*, Mus. rep. 48 (for 1894) 1895. 1:199, 212, 248 (2d paging).

— Mus. bul. 35. 1900. p.715, 731. *Same*, Mus. rep. 54 (for 1900) 1902. 2:715, 731.

Ries. Drain Tile Works. Mus. bul. 12. 1895. p.222. *Same*, Mus. rep. 48 (for 1894) 1895. 1:222 (2d paging).

— Mus. bul. 35. 1900. p.771. *Same*, Mus. rep. 54 (for 1900) 1902. 2:771.

Ries. Limestone Formations. Mus. bul. 44. 1901. p.793-94. *Same*, Mus. rep. 54 (for 1900) 1902. 3:793-94.

^aFirst use of term in original publication of this article. Science. 1899. new ser. 10:877.

^bFirst use of term.

Madison county (*continued*)

Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.122; 10. 1890. p.250.
 ———— *revised* by Merrill. Mus. bul. 15. 1895. p.443. *Same*, Mus. rep. 48 (for 1894) 1895. 1:443 (2d paging).

Vanuxem. Geology. Geol. rep. 3d dist. (for 1838) 1839. p.245-85. Geol. N. Y. pt3. 1842. p.271-77.

Magnesia-iron silicates. Merrill. Magnesia-iron Silicates. Mus. bul. 19. 1898. p.121-22. *Same*, Mus. rep. 51 (for 1897) 1899. 1:121-22.

Magnesian deposits. Vanuxem. Magnesian Deposits. Geol. rep. 3d dist. (for 1838) 1839. p.261. Geol. N. Y. pt3. 1842. p.107-9.

See also Onondaga salt group.

Magnesian marble. Beck. Magnesian Marble. Min. rep. (for 1836) 1837. p.58 (ed. 2, p.60). Min. N. Y. 1842. p.250.

Magnesian minerals. Beck. Magnesian Minerals. Min. rep. (for 1838) 1839. p.38-41. Min. N. Y. 1842. p.57-59, 248-56.

Magnesian slate. Emmons. Magnesian Slate. Geol. N. Y. pt2. 1842. p.152-54. Ag. N. Y. 1846. 1:75-78.

Fitch. Magnesian Slate of Washington County. Ag. Soc. Trans. 9 (for 1849) 1850. p.854-55.

Magnesite. Beck. Carbonate of Magnesia. Min. N. Y. 1842. p.249-50.

Beck. Magnesite or Kerolite. Min. rep. (for 1838) 1839. p.39. Min. N. Y. 1842. p.57, 279-81.

Merrill. Localities. Mus. bul. 15. 1895. p.582. *Same*, Mus. rep. 48 (for 1894) 1895. 1:582 (2d paging).

——— Mus. bul. 19. 1898. p.234. *Same*, Mus. rep. 51 (for 1897) 1899. 1:234.

Whitlock. Magnesite. Mus. bul. 58. 1902. p.82.

Magnetic iron ore, *see* Magnetite.

Magnetic iron pyrites, *See* Pyrrhotite.

Magnetic iron sand. Beck. Magnetic Iron Sand. Min. rep. (for 1836) 1837. p.39-40 (ed. 2, p.41-42). Min. N. Y. 1842. p.22.

Merrill. Magnetic Iron Sand. Mus. bul. 15. 1895. p.542. *Same*, Mus. rep. 48 (for 1894) 1895. 1:542 (2d paging).

Magnetic needle. Hough. Early Observations upon Magnetic Variations. Mus. rep. 22 (for 1868) 1869. p.109-13. map.

Magnetite. Beck. Magnetic Iron Ore. Min. rep. (for 1836) 1837. p.18-28 (ed. 2, p.20-30). Min. N. Y. 1842. p.1-22, 383-85, 445. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.147-48.

Cushing. Iron Ore of Franklin County. Geol. rep. 18 (for 1898) 1899. p.125-26. *Same*, Mus. rep. 52 (for 1898) 1900. 2:125-26.

Denniston. Magnetic Oxide of Iron of Orange County. Ag. Soc. Trans. 22 (for 1862) 1863. p.159-60.

Emmons. Magnetic Oxide of Iron in Essex County. Geol. rep. 2d dist. (for 1839) 1840. p.319-21. Geol. N. Y. pt2. 1842. p.231-63.

Emmons. Magnetic Oxide of Iron. Geol. N. Y. pt2. 1842. p.87-92.

Emmons. Iron Ores of Clinton County. Geol. N. Y. pt2. 1842. p.291-308.

Emmons. Iron Ores of Franklin. Geol. N. Y. pt2. 1842. p.326-31.

Emmons. Magnetic Ores of St Lawrence County. Geol. N. Y. pt2. 1842. p.347-48.

Emmons. Magnetic Oxide of Iron in Warren County. Geol. rep. 2d dist. (for 1838) 1839. p.236-37; (for 1839) 1840. p.319-21.

Fitch. Iron Ore of Washington County. Ag. Soc. Trans. 9 (for 1849) 1850. p.822-23.

Hall. C. E. Laurentian Magnetic Iron Ore Deposits of Northern New York. Mus. rep. 32 (for 1878) 1879. p.133-40. *Same*, Geol. rep. 4 (for 1884) 1885. p.23-34, with geol. map of Essex county, 48x40.5cm.

Magnetite (*continued*)

- Hall, James. Magnetic Oxide of Iron. Geol. rep. 2d dist. (for 1836) 1837. p.127-35 (ed. 2, p.129-37).
- Hunt. Magnetite. Mus. rep. 21 (for 1867) 1871. p.86-88.
- Kemp. Iron Ores of Moriah and Westport Townships, Essex County. Mus. bul. 14. 1895. p.340-51. *Same*, Mus. rep. 48 (for 1894) 1895. 1:340-51 (2d paging).
- Kemp. Iron Ores of Essex County. Geol. rep. 15 (for 1895) 1897. p.607-14. *Same*, Mus. rep. 49 (for 1895) 1898. 2:607-14.
- List of Iron Ores in the Economic Collection. Mus. rep. 26 (for 1872) 1874. p.27-30.
- Mather. Magnetic Oxide of Iron in Putnam County. Geol. rep. 1st dist. (for 1838) 1839. p.108-14.
- Mather. Magnetic Oxide of Iron of Rockland and Orange Counties. Geol. rep. 1st dist. (for 1838) 1839. p.133-34.
- Mather. Magnetic Iron Ore. Geol. rep. 1st dist. (for 1840) 1841. p.105-8.
- Mather. Ores of the Highlands and of the Mountains of Saratoga and Washington. Geol. N. Y. pt.1. 1843. p.559-76.
- Merrill. Localities in New York. Mus. bul. 15. 1895. p.542-43. *Same*, Mus. rep. 48 (for 1894) 1895. 1:542-43 (2d paging).
- Ries. Iron Ores of Orange County. Geol. rep. 15 (for 1895) 1897. p.470-73. *Same*, Mus. rep. 49 (for 1895) 1898. 2:470-73.
- Smock. Highlands of the Hudson; Magnetic Iron Ores. Mus. bul. 7. 1889. p.5-7, 15-24.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.530-32. *Same*, Mus. rep. 48 (for 1894) 1895. 1:530-32 (2d paging).
- — *revised* by Merrill. Mus. bul. 19. 1898. p.216-18. *Same*, Mus. rep. 51 (for 1897) 1899. 1:216-18.
- Smock. Adirondack Region including the Lake Champlain Mines; Magnetic Iron Ores. Mus. bul. 7. 1889. p.7-10, 24-44.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.532-37. *Same*, Mus. rep. 48 (for 1894) 1895. 1:532-37 (2d paging).
- — *revised* by Merrill. Mus. bul. 19. 1898. p.218-19. *Same*, Mus. rep. 51 (for 1897) 1899. 1:218-19.
- Watson. Iron Ore of Essex County. Ag. Soc. Trans. 12 (for 1852) 1853. p.771-86; 13 (for 1853) 1854. p.717.
- Whitlock. Magnetite. Mus. bul. 58. 1902. p.73.
- See also* Iron ores.
- Malachite.** Beck. Green Malachite. Min. N. Y. 1842. p.425-26.
- Whitlock. Malachite. Mus. bul. 58. 1902. p.86.
- Mammals.** Catalogues and Additions. Mus. rep. 1, p.7-10; 2, p.17-18; 3 *rev. ed.*, p.17-18, 42; 4, p.19, 29-30; 5, p.17; 6, p.19; 7, p.15-16; 8, p.15-16; 13, p.11; 22, p.14; 24, p.19; 25, p.16; 46, p.21; 51, 1:r20; 53, 1:r166.
For dates of Mus. rep. *see* List of publications, p.241.
- Catalogue of Mounted Mammals in the Collection Sep. 30, 1890. Mus. rep. 44 (for 1890) 1892. p.28-30.
- Catalogue of the Collection of Mammalian Osteology, Sep. 30, 1890. Mus. rep. 44 (for 1890) 1892. p.31-33.
- De Kay. Mammalia. Assembly doc. 1840, no.50, p.7, 17-20. Zool. N. Y. 1842. v.1. pt.1. 146p. 33pl.
- De Rham collection. Catalogue. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.42; 4 (for 1850) 1851. p.29-30.
- List of Deficiencies in the Mammalia. Mus. rep. 17 (for 1863) 1864. p.12.
- Marshall. Mammals of New York exhibited at the World's Columbian Exposition, Chicago, Ill., 1893. Mus. rep. 47 (for 1893) 1894. p.41-48.

Mammals (*continued*)

- Miller. Preliminary List of New York Mammals. Mus. bul. 29. 1899. p.271-390. *Same*, Mus. rep. 53 (for 1899) 1901. 1:271-390.
Contains a bibliography.
Fossil species, p.372-76.
- Miller. Key to the Land Mammals of Northeastern North America. Mus. bul. 38. 1900. p.59-160. *Same*, Mus. rep. 54 (for 1900) 1902. 3:59-160.
See also Mastodon.
- Manganese**. Beck. Manganese. Min. rep. (for 1838) 1839. p.47-49. Min. N. Y. 1842. p.53-55, 406-8.
Beck. Black Manganese. Min. N. Y. 1842. p.447.
Horsford. Manganese of Cattaraugus County. Geol. rep. 4th dist. (for 1839) 1840. p.463-64.
Vanuxem. Manganese. Geol. rep. 4th dist. (for 1836) 1837. p.200 (ed. 2, p.202).
Whitlock. Manganese. Mus. bul. 58. 1902. p.76, 77, 79, 83.
- Manganese oxid**, *see* Wad.
- Manganese spar**, *see* Rhodonite.
- Manganite**. Whitlock. Manganite. Mus. bul. 58. 1902. p.77.
- Manhattan schist**. Merrill. Manhattan Schist. Mus. rep. 50 (for 1896) 1898. 1:28 (1st paging).
- Manlius limestone (Tentaculite)**. Clarke. Fauna. Mus. mem. 3. 1900. p.98-101. *Same*, Mus. rep. 53 (for 1899) 1901. 2:98-101.
Clarke & Schuchert. Manlius Limestone. Mus. mem. 3. 1900. p.11. *Same*, Mus. rep. 53 (for 1899) 1901. 2:11.
Emmons. Manlius Waterlime. Ag. N. Y. 1846. 1:159-66.
Grabau. Manlius Limestone of Niagara Region. Mus. bul. 45. 1901. p.116-17. *Same*, Mus. rep. 54 (for 1900) 1902. 4:116-17.
^aVanuxem. Manlius Water Lime Group. Geol. rep. 3d dist. (for 1838) 1839. p.272-74; (for 1839) 1840. p.376. Geol. N. Y. pt3. 1842. p.110.
Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.112.
See also Tentaculite limestone.
- Manure fly**. Lintner. Manure fly. Ent. rep. 10 (for 1894) 1895. p.391-97. *Same*, Mus. rep. 48 (for 1894) 1895. 1:391-97 (1st paging).
- Mapletree borer**. Felt. Mapletree Borer. Forest, Fish and Game Com. rep. 4 (for 1898) 1899. p.386-92.
— — — Ag. Soc. Trans. 59 (for 1899) 1900. p.277-78.
Lintner. Mapletree Borer. Ent. rep. 12 (for 1896) 1897. p.237-48. *Same*, Mus. rep. 50 (for 1896) 1898. 1:237-48 (1st paging).
- Mapletree pruner**. Felt. Maple Tree Pruner. Forest, Fish and Game Com. rep. 4 (for 1898) 1899. p.392-93.
Lintner. Maple Tree Pruner. Ent. rep. 9 (for 1892) 1893. p.357-61. *Same*, Mus. rep. 46 (for 1892) 1893. p.357-61.
- Mapletree scale insect**. Felt. Cottony Maple Tree Scale Insect. Forest, Fish and Game Com. rep. 4 (for 1898) 1899. p.393-95.
— — — Mus. bul. 27. 1899. p.52. *Same*, Mus. rep. 53 (for 1899) 1901. 1:52.
Lintner. Cottony Maple Tree Scale Insect. Ent. rep. 6 (for 1889) 1890. p.141-47. *Same*, Mus. rep. 43 (for 1889) 1890. p.141-47.
- Mapletrees**, *see* Shade trees.
- Maps**, *see* Economic map; Geologic map; Indians; Physical geography; *also names of counties, etc.*
- Marasmius**. Peck. Genus Marasmius. Mus. rep. 23 (for 1869) 1873. p.124-26.

- Marbles.** Beck. Marbles. Min. rep. (for 1838) 1839. p.18-22. Min. N. Y. 1842. p.67-74, 229.
- Eckel. Quarries in Southeastern New York. Geol. rep. 20 (for 1900) 1902. p.169-76. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r169-76.
- Emmons. Marble. Geol. rep. 2d dist. (for 1838) 1839. p.212-16.
- Hall. Marbles, or Metamorphic Crystalline Limestones; their Geological Position and Geographical Distribution. Mus. rep. 39 (for 1885) 1886. p.193.
- Mather. Limestones and Marbles of Columbia and Dutchess Counties. Geol. rep. 1st dist. (for 1837) 1838. p.165-72.
- Mather. Building Stones and Marbles. Geol. N. Y. pt1. 1843. p.326-28.
- Merrill. Directory of Quarrymen. Mus. bul. 15. 1895. p.486-93. *Same*, Mus. rep. 48 (for 1894) 1895. 1:486-93 (2d paging).
- Smock. Marbles. Mus. bul. 3. 1888. p.13-14; 10. 1890. p.208.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.424. *Same*, Mus. rep. 48 (for 1894) 1895. 1:424 (2d paging).
- — — *revised* by Merrill. Mus. bul. 19. 1898. p.197. *Same*, Mus. rep. 51 (for 1897) 1899. 1:197.
- Smock. Quarries. Mus. bul. 3. 1888. p.36-44; 10. 1890. p.234-37.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.429-32. *Same*, Mus. rep. 48 (for 1894) 1895. 1:429-32 (2d paging).
- Smock. Tests; Durability; Causes of Decay. Mus. bul. 10. 1890. p.364-89.
- Smyth. Marble of St Lawrence County. Geol. rep. 13 (for 1893) 1894. p.514-15. *Same*, Mus. rep. 47 (for 1893) 1894. p.708-9.
- See also* Black marble.
- Marcasite.** Beck. White Iron Pyrites. Min. N. Y. 1842. p.393-94.
- Whitlock. Marcasite. Mus. bul. 58. 1902. p.60.
- Marcellus shales.** Bishop. Marcellus Shales of Erie County. Geol. rep. 15 (for 1895) 1897. p.315-16, 390. *Same*, Mus. rep. 49 (for 1895) 1898. 2:315-16, 390.
- Clarke. Marcellus Shales in Ontario County. Geol. rep. 4 (for 1884) 1885. p.11-15.
- Clarke. List of the Species constituting the known Fauna and Flora of the Marcellus Epoch in the State of New York. Geol. rep. 8 (for 1888) 1889. p.60-61. *Same*, Mus. rep. 42 (for 1888) 1889. p.406-7.
- Clarke. Limestones of Central and Western New York interbedded with Bituminous Shales of the Marcellus Stage with Notes on their Faunas. Mus. bul. 49. 1901. p.115-38. pl.8-9.
- Clarke. Marcellus Fauna. Mus. bul. 52. 1902. p.668.
- Clarke & Schuchert. Marcellus Shale. *See* New York series.
- Conrad. Shales of the Superior Series. Geol. rep. 3d dist. (for 1836) 1837. p.182-84 (ed. 2, p.184-86).
- Delafield. Marcellus Shale of Seneca County. Ag. Soc. Trans. 10 (for 1850) 1851. p.444-47.
- Emmons. Marcellus Shales. Ag. N. Y. 1846. 1:181-83.
- Geddes. Marcellus Shales of Onondaga County. Ag. Soc. Trans. 19 (for 1859) 1860. p.252-53.
- Grabau. Marcellus Shales. Geol. rep. 16 (for 1896) 1899. p.236-37. *Same*, Mus. rep. 50 (for 1896) 1899. 2:236-37.
- Hall. Marcellus Shale. Geol. N. Y. pt4. 1843. p.177-83. Pal. N. Y. 1859. 3:47-48.
- Hall. Marcellus Shale in Erie County. Geol. rep. 4th dist. (for 1840) 1841. p.162. Geol. N. Y. pt4. 1843. p.472.
- Hall. Marcellus Shale of Genesee County. Geol. rep. 4th dist. (for 1839) 1840. p.429. Geol. N. Y. pt4. 1843. p.466-67.

Marcellus shales (*continued*)

- Hall. Marcellus Shales of Livingston County. Geol. rep. 4th dist. (for 1839) 1840. p.420-22. Geol. N. Y. pt4. 1843. p.461-62.
- Hall. Marcellus Shales of Ontario County. Geol. rep. 4th dist. (for 1838) 1839. p.312. Geol. N. Y. pt4. 1843. p.457.
- ^aHall. Marcellus Shales in Seneca County. Geol. rep. 4th dist. (for 1838) 1839. p.295-96. Geol. N. Y. pt4. 1843. p.451.
- Hall. Organic Remains. Geol. N. Y. pt4. 1843. p.180-82.
- Hall. Fossils of the Goniatite Limestone in the Marcellus Shale of the Hamilton Group, in the Eastern and Central Parts of the State of New York, and those of the Goniatite Beds of Rockford, Ind., with some Analogous Forms from the Hamilton Group Proper. Mus. rep. 13 (for 1859) 1860. p.95-112, 125. illus; 15 (for 1861) 1862. p.81, 196.
- Lincklaen. Marcellus Slate; Fossils. Mus. rep. 14 (for 1860) 1861. p.62-65.
- Lincoln. Marcellus Shale of Seneca County. Geol. rep. 14 (for 1894) 1895. p.92-93, 102. *Same*, Mus. rep. 48 (for 1894) 1895. 2:92-93, 102.
- Luther. Marcellus Shales in Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p.45-46. *Same*, Mus. rep. 47 (for 1893) 1894. p.239-40.
- Luther. Marcellus Shale of Onondaga County. Geol. rep. 15 (for 1895) 1897. p.279-80. *Same*, Mus. rep. 49 (for 1895) 1898. 2:279-80.
- Luther. Marcellus Shale of the Salt District. Geol. rep. 16 (for 1896) 1899. p.216-17. *Same*, Mus. rep. 50 (for 1896) 1899. 2:216-17.
- Mather. Marcellus Shales. Geol. N. Y. pt1. 1843. p.317.
- Merrill. Marcellus Shale. Mus. bul. 19. 1898. p.162. *Same*, Mus. rep. 51 (for 1897) 1899. 1:162.
- Ries. Marcellus Shale. Geol. rep. 15 (for 1895) 1897. p.692-93. *Same*, Mus. rep. 49 (for 1895) 1898. 2:692-93.
- — — Mus. bul. 35. 1900. p. 830-31. *Same*, Mus. rep. 54 (for 1900) 1902. 2:830-31.
- Smock. Marcellus Shale. Mus. bul. 3. 1888. p.17; 10. 1890. p.221-22.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.387. *Same*, Mus. rep. 48 (for 1894) 1895. 1:387 (2d paging).
- — — *revised* by Merrill. Mus. bul. 19. 1898. p.191. *Same*, Mus. rep. 51 (for 1897) 1899. 1:191.
- Vanuxem. Marcellus Shale. Geol. rep. 3d dist. (for 1839) 1840. p.379-80. Geol. N. Y. pt3. 1842. p.146-50.
- Vanuxem. Marcellus Shale in Cayuga County. Geol. N. Y. pt3. 1842. p.288.
- Vanuxem. Marcellus Shale in Herkimer County. Geol. N. Y. pt3. 1842. p.258.
- Vanuxem. Marcellus Shale in Madison County. Geol. N. Y. pt3. 1842. p.274-75.
- Vanuxem. Marcellus Shale in Oneida County. Geol. N. Y. pt3. 1842. p.264.
- Vanuxem. Marcellus Shale in Onondaga County. Geol. N. Y. pt3. 1842. p.284.
- Vanuxem. Marcellus Shale in Otsego County. Geol. N. Y. pt3. 1842. p.254.
- Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.147.
- Wright. Marcellus Shale in Yates County. Mus. rep. 35 (for 1881) 1884. p.206.
- See also* Agoniatite limestone; Stafford limestone.
- Margarite.** Beck. Margarite. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.144-45. Hunt. Margarite. Mus. rep. 21 (for 1867) 1871. p.83.

^aFirst use of term.

- Margarodite.** Merrill. Margarodite. Mus. bul. 19. 1898. p.122. *Same*, Mus. rep. 51 (for 1897) 1899. 1:122.
- Marine alluvions.** Mather. Marine Alluvions. Geol. rep. 1st dist. (for 1836) 1837. p.76-82 (ed. 2, p. 78-84). Geol. N. Y. pt1. 1843. p.17-30.
- Marl.** Beck. Marl. Min. rep. (for 1836) 1837. p.58 (ed. 2, p.60). Min. N. Y. 1842. p.83-88.
- Carr. Lake Marl and Tufa; Cortland Marl Ponds. Geol. rep. 3d dist. (for 1839) 1840. p.385.
- Conrad. Calcareous Tufa and Marl. Geol. rep. 3d dist. (for 1836) 1837. p.179-80 (ed. 2, p.181-82).
- Emmons. Fresh Water Marl. Geol. rep. 2d dist. (for 1836) 1837. p.149 (ed. 2, p.151).
- Emmons. Marl in Warren County. Geol. rep. 2d dist. (for 1838) 1839. p.237.
- Emmons. Marl. Ag. N. Y. 1846. 1:204-6.
- Evans. Marl Beds of Madison County. Ag. Soc. Trans. 11 (for 1851) 1852. p.703-7.
- Geddes. Marl of Onondaga County. Ag. Soc. Trans. 19 (for 1859) 1860. p.254-56.
- Hall. Lake Marl and Tufa. Geol. rep. 4th dist. (for 1838) 1839. p.332-35; (for 1839) 1840. p. 445-48. Geol. N. Y. pt4. 1843. p.360-61.
- Hall. Tufa and Marl in Monroe County. Geol. rep. 4th dist. (for 1837) 1838. p.337-40. Geol. N. Y. pt4. 1843. p.428-30.
- Hall. Marl in Niagara County. Geol. rep. 4th dist. (for 1837) 1838. p.367. Geol. N. Y. pt4. 1843. p.446.
- Hall. Marl in Orleans County. Geol. rep. 4th dist. (for 1837) 1838. p.354. Geol. N. Y. pt4. 1843. p.437.
- Hall. Marl in Wayne County. Geol. rep. 4th dist. (for 1837) 1838. p.320-21. Geol. N. Y. pt4. 1843. p.416.
- Horsford. Marl and Tufa of Cattaraugus County. Geol. rep. 4th dist. (for 1839) 1840. p.461-62.
- Marshall. Report on a Deposit of Marl and Peat in New Baltimore. Mus. rep. 45 (for 1891) 1892. p.46-52.
- Mather. Shell Marl. Geol. rep. 1st dist. (for 1836) 1837. p.71-72 (ed. 2, p.73-74); (for 1840) 1841. p.69-71.
- Mather. Fresh Water Shell Marl of Columbia and Dutchess Counties. Geol. rep. 1st dist. (for 1837) 1838. p.147-50.
- Mather. Red Marl. Geol. N. Y. pt1. 1843. p.288.
- Mather. Shell or Lake Marl. Geol. N. Y. pt1. 1843. p.10-12.
- Mather. Table of Localities. Geol. N. Y. pt1. 1843. p.14-16, 229.
- Merrill. Marl. Mus. bul. 15. 1895. p.528. *Same*, Mus. rep. 48 (for 1894) 1895. 1:528 (2d paging).
- Mus. bul. 19. 1898. p.223. *Same*, Mus. rep. 51 (for 1897) 1899. 1:223.
- Ries. Marls. Mus. bul. 44. 1901. p.766-68. *Same*, Mus. rep. 54 (for 1900) 1902. 3:766-68.
- Ries. Marl in Genesee County. Mus. bul. 44. 1901. p.785. *Same*, Mus. rep. 54 (for 1900) 1902. 3:785.
- Ries. Marls of Livingston County. Mus. bul. 44. 1901. p.792-93. *Same*, Mus. rep. 54 (for 1900) 1902. 3:792-93.
- Ries. Marls of Madison County. Mus. bul. 44. 1901. p.793-94. *Same*, Mus. rep. 54 (for 1900) 1902. 3:793-94.
- Ries. Marls of Monroe County. Mus. bul. 44. 1901. p.797-98. *Same*, Mus. rep. 54 (for 1900) 1902. 3:797-98.
- Ries. Marls of Onondaga County. Mus. bul. 44. 1901. p.807. *Same*, Mus. rep. 54 (for 1900) 1902. 3:807.

Marl (*continued*)

- Ries. Marl of Ontario County. Mus. bul. 44. 1901. p.808. *Same*, Mus. rep. 54 (for 1900) 1902. 3:808.
- Ries. Marl in Orleans County. Mus. bul. 44. 1901. p.811. *Same*, Mus. rep. 54 (for 1900) 1902. 3:811.
- Ries. Marl of Schuyler County. Mus. bul. 44. 1901. p.818. *Same*, Mus. rep. 54 (for 1900) 1902. 3:818.
- Ries. Marl of Steuben County. Mus. bul. 44. 1901. p.819. *Same*, Mus. rep. 54 (for 1900) 1902. 3:819.
- Ries. Marl of Wayne County. Mus. bul. 44. 1901. p.828. *Same*, Mus. rep. 54 (for 1900) 1902. 3:828.
- Ries. Marl of Yates County. Mus. bul. 44. 1901. p.833. *Same*, Mus. rep. 54 (for 1900) 1902. 3:833.
- Vanuxem. Limestone, Marl and Tufa. Geol. rep. 4th dist. (for 1836) 1837. p.191-93 (ed. 2, p.193-95).
- Vanuxem. Lake Marl. Geol. rep. 3d dist. (for 1838) 1839. p.280-81. Geol. N. Y. pt3. 1842. p.224-26.

See also Gypseous marl.

Marsh alluvions, *see* Salt marshes.

Maryland. Schuchert. List of the Fossils occurring in the Oriskany Sandstone of Maryland, New York and Ontario. Geol. rep. 8 (for 1888) 1889. p.50-54. *Same*, Mus. rep. 42 (for 1888) 1889. p.396-400.

Masonite. Beck. Masonite. Min. N. Y. 1842. p.452.

Mastodon. Bones of a Mastodon found at Ellenville, N. Y. Mus. rep. 14 (for 1860) 1861. p.7.

Clarke. Report on Mastodon Bones at Attica, N. Y. Geol. rep. 6 (for 1886) 1887. p.34-35. Mus. rep. 41 (for 1887) 1888. p.388-90. plan.

Clarke. Monroe Mastodon. Mus. bul. 52. 1902. p.439-41.

Clarke. Mastodons of New York; a List of Discoveries of their Remains 1705-1902. Pal. rep. (for 1902). *In press*.

Hall. Fossil Bones of Quadrupeds. Geol. rep. 4th dist. (for 1837) 1838. p.347. Geol. N. Y. pt4. 1843. p.363-67.

Hall. Notes and Observations on the Cohoes Mastodon. Mus. rep. 21 (for 1867) 1871. p.99-148. 5pl. 2maps.

Map of Cohoes and vicinity showing course of the Mohawk (uncolored) 23x18.5cm.

Map of Cohoes falls and vicinity (uncolored) 67x42cm.

Mather. Bones of Animals in Alluvial Depositions; Mastodon and Fossil Elephant. Geol. N. Y. pt1. 1843. p.44-47, 232-33, 636.

Miller. Mastodon americanus. Mus. bul. 29. 1899. p.373-75. *Same*, Mus. rep. 53 (for 1899) 1901. 1:373-75.

Skeleton of a Mastodon found at Cohoes, N. Y. Mus. rep. 20 *rev. ed.* (for 1866) 1868. p.10; 21 (for 1867) 1871. p.5, 7-9.

Mauch Chunk group. Merrill. Mauch Chunk Group. Mus. bul. 19. 1898. p.166-67. *Same*, Mus. rep. 51 (for 1897) 1899. 1:166-67.

May beetle. Lintner. White Grub of the May Beetle. Mus. bul. 5. 1888. 32p. illus.

Lintner. May Beetle. Ent. rep. 9 (for 1892) 1893. p.353-57. *Same*, Mus. rep. 46 (for 1892) 1893. p.353-57.

May flies, *see* Neuropteroid insects.

Mazatlan mollusca. Catalogue. Mus. rep. 13 (for 1859) 1860. p.21-36.

Meal worm. Lintner. Meal Worm. Ent. rep. 8 (for 1891) 1893. p.176-77. *Same*, Mus. rep. 45 (for 1891) 1892. p.176-77.

Mecoptera, *see* Neuropteroid insects.

Medina quadrangle. Clarke, Ruedemann & Luther. Contact Lines of Upper Siluric Formations. Mus. bul. 52. 1902. p.517-23.

Medina sandstone. Bishop. Medina Sandstone of Erie County. Geol. rep. 15 (for 1895) 1897. p.390. *Same*, Mus. rep. 49 (for 1895) 1898. 2:390.

Medina sandstone (*continued*)

- Clarke, Ruedemann & Luther. Medina Sandstone on Brockport and Medina Quadrangle. Mus. bul. 52. 1902. p.519-20, 522.
- Clarke & Schuchert. Medina Sandstone. *See* New York series.
- Darton. Medina Formations of Ulster County. Geol. rep. 13 (for 1893) 1894. p.307-8. *Same*, Mus. rep. 47 (for 1893) 1894. p.501-2.
- Emmons. Medina Sandstone. Ag. N. Y. 1846. 1:142-44.
- Grabau. Medina Sandstones and Shales in Niagara District. Mus. bul. 45. 1901. p.87-95. *Same*, Mus. rep. 54 (for 1900) 1902. 4:87-95.
- Hall. Medina Sandstone. Geol. N. Y. pt4. 1843. p.34-57. Pal. N. Y. 1852. 2:2-4.
- Hall. Medina Sandstone in Monroe County. Geol. N. Y. pt4. 1843. p.422.
- Hall. Medina Sandstone in Niagara County. Geol. N. Y. pt4. 1843. p.440.
- Hall. Medina Sandstone in Orleans County. Geol. N. Y. pt4. 1843. p.433.
- Hall. Medina Sandstone in Wayne County. Geol. N. Y. pt4. 1843. p.414.
- Hall. Organic Remains. Geol. N. Y. pt4. 1843. p.39-40, 46-49. Pal. N. Y. 1852. 2:4-14.
- Hall. Mineral Contents. Geol. N. Y. pt4. 1843. p.44-45..
- Lincklaen. Medina Sandstones; Fossils. Mus. rep. 14 (for 1860) 1861. p.51-52.
- Luther. Medina Sandstone. Geol. rep. 16 (for 1896) 1899. p.201-3. *Same*, Mus. rep. 50 (for 1896) 1899. 2:201-3.
- Mather. Rocks Similar in Character to the Shawangunk Grit and Overlying Red Rocks. Geol. N. Y. pt1. 1843. p.362-65.
- Merrill. Medina Sandstone. Mus. bul. 19. 1898. p.152. *Same*, Mus. rep. 51 (for 1897) 1899. 1:152.
- Ries. Medina Shale. Geol. rep. 15 (for 1895) 1897. p.689. *Same*, Mus. rep. 49 (for 1895) 1898. 2:689.
- — *revised*. Mus. bul. 35. 1900. p.826-28. *Same*, Mus. rep. 54 (for 1900) 1902. 2:826-28.
- Ries. Medina Sandstone of Orange County. Geol. rep. 15 (for 1895) 1897. p.401. *Same*, Mus. rep. 49 (for 1895) 1898. 2:401.
- Smock. Medina Sandstone. Mus. bul. 3. 1888. p.16; 10. 1890. p.219-21.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.385-86. *Same*, Mus. rep. 48 (for 1894) 1895. 1:385-86 (2d paging).
- — *revised* by Merrill. Mus. bul. 19. 1898. p.189-90. *Same*, Mus. rep. 51 (for 1897) 1899: 1:189-90.
- Smock. Quarries. Mus. bul. 3. 1888. p.57-71; 10. 1890. p.260-65.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.396-400. *Same*, Mus. rep. 48 (for 1894) 1895. 1:396-400 (2d paging).
- Vanuxem. Medina Sandstone. Geol. rep. 3d dist. (for 1839) 1840. p.374. Geol. N. Y. pt3. 1842. p.71-74.
- Vanuxem. Medina Sandstone in Cayuga County. Geol. N. Y. pt3. 1842. p.286.
- Vanuxem. Medina Sandstone in Oneida County. Geol. N. Y. pt3. 1842. p.261.
- Vanuxem. Medina Sandstone in Oswego County. Geol. N. Y. pt3. 1842. p.270-71.
- Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.71.
- Menaccanite**, *see* Ilmenite.
- Mercury**. Whitlock. Mercury. Mus. bul. 58. 1902. p.51, 55.
- Mesotype**. Beck. Mesotype. Min. N. Y. 1842. p.344.
- Mesozoic**. Merrill. Mesozoic Time. Mus. bul. 19. 1898. p.170-74. *Same*, Mus. rep. 51 (for 1897) 1899. 1:170-74.

- Mesozoic fossils.** Bagg. Report of Work on the Collection of Mesozoic and Cenozoic Fossils in Geological Hall. Mus. rep. 52 (for 1898) 1900. 1:r32-78.
- Metallic implements.** Beauchamp. Metallic Implements of New York Indians. Mus. bul. 55. 1902. 94p. 38pl. (phot.)
- Metallic minerals.** Beck. Metallic Minerals. Min. rep. (for 1838) 1839. p.42-54. Min. N. Y. 1842. p.382-443. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.147-51.
- Merrill. Localities. Mus. bul. 15. 1895. p.578-81. *Same*, Mus. rep. 48 (for 1894) 1895. 1:578-81 (2d paging).
- — — Mus. bul. 19. 1898. p.231-33. *Same*, Mus. rep. 51 (for 1897) 1899. 1:231-33.
- Vanuxem. Metallic Minerals in the Fourth District. Geol. rep. 4th dist. (for 1836) 1837. p.198-201 (ed. 2. p.200-3).
- Metalliferous greywacke,** *see* Hudson river group; Utica shale.
- Metalliferous limerock,** *see* Black river limestone; Trenton limestone.
- Metamorphic limestones.** Mather. Economical Applications. Geol. N. Y. pt.1. 1843. p.444-46.
- Metamorphic rocks.** Emmons. Observations on Metamorphism. Ag. N. Y. 1846. 1:81-83.
- Emmons. Metamorphic Rock. Ag. N. Y. 1846. 1:165-66.
- Hall. Metamorphism of Strata. Pal. N. Y. 1859. 3:73-78, 89-96.
- Mather. Metamorphic and Primitive Rocks and their Contents. Geol. rep. 1st dist. (for 1840) 1841. p.103-5. Geol. N. Y. pt.1. 1843. p.439-87.
- Mather. Ores found in the Champlain, Taconic and Metamorphic Rocks. Geol. N. Y. pt.1. 1843. p.488-509.
- Mather. Periods of Metamorphic Agency. Geol. N. Y. pt.1. 1843. p.629-31.
- Merrill. Metamorphic Rocks. Mus. bul. 19. 1898. p.125-26. *Same*, Mus. rep. 51 (for 1897) 1899. 1:125-26.
- See also* Taconic.
- Meteorites.** Whitlock. Meteorites. Mus. bul. 58. 1902. p.131.
- Meteorology.** Beck. Abstracts of Meteorological Observations made at the City of Albany. Alb. Inst. Trans. 1833-52. 2:1-29.
- Emmons. Climate and Temperature of the State. Ag. N. Y. 1846. 1:11-32, 321-22.
- Hough. Results of a Series of Meteorological Observations [from 1826-71], made in Obedience to Instructions from the Regents of the University, 1855-72. 2v. pl. maps. tab.
- Meteorological Observations: 1836-37. Alb. Inst. Trans. 1833-52. 2:247-62.
- Report of Committee appointed to Continue Observations. Alb. Inst. Trans. 1833-52. 2:97-112, 153-209.
- Results of Meteorological Observations. Mus. rep. 17 (for 1863) 1864. p.36-49; 18 (for 1864) 1865. p.207-31; 20 *rev. ed.* (for 1866) 1868. p.107-11; 22 (for 1868) 1869. p.107-8.
- Webster. Table of Mean Temperatures, for the Last Ten Years deduced from the Reports of the Regents of the University. Alb. Inst. Trans. 1833-52. 2:221-23.
- Wilson. Local Climatology. Mus. rep. 20 (for 1866) 1867. p.63-106. diagram.
- Mica.** Beck. Mica. Min. rep. (for 1836) 1837. p.59 (ed. 2, p.61). Min. N. Y. 1842. p.369-74. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.144-45.
- Emmons. Mica. Ag. N. Y. 1846. 1:40.
- Merrill. Micas. Mus. bul. 19. 1898. p.122. *Same*, Mus. rep. 51 (for 1897) 1899. 1:122.
- Whitlock. Mica. Mus. bul. 58. 1902. p.110-12.
- Mica schist.** Smock. Mica Schist. Mus. bul. 3. 1888. p.10-12.

- Mica slate.** Fitch. Mica Slate of Washington County. Ag. Soc. Trans. 9 (for 1849) 1850. p.836-38.
Mather. Mica Slate. Geol. N. Y. pt1. 1843. p.531, 538.
- Microcline.** Merrill. Microcline. Mus. bul. 19. 1898. p.121. *Same*, Mus. rep. 51 (for 1897) 1899. 1:121.
Whitlock. Microcline. Mus. bul. 58. 1902. p.89.
- Microlite.** Beck. Microlite. Min. N. Y. 1842. p.452.
- Milk of lime.** Ries. Milk of Lime. Mus. bul. 44. 1901. p.669. *Same*, Mus. rep. 54 (for 1900) 1902. 3:669.
- Millerite.** Merrill. Localities. Mus. bul. 15. 1895. p.581. *Same*, Mus. rep. 48 (for 1894) 1895. 1:581 (2d paging).
——— Mus. bul. 19. 1898. p.233. *Same*, Mus. rep. 51 (for 1897) 1899. 1:233.
Whitlock. Millerite. Mus. bul. 58. 1902. p.56.
- Millstone grit.** Horton. Millstone Grit of Eaton. Geol. rep. 1st dist. (for 1838) 1839. p.152-53.
Vanuxem. Millstone Grit. Geol. rep. 3d dist. (for 1837) 1838. p.267-70, 284.
See also Carboniferous system; Oneida conglomerate.
- Millstones.** Merrill. Millstones. Mus. bul. 19. 1898. p.223. *Same*, Mus. rep. 51 (for 1897) 1899. 1:223.
Merrill. Millstones; Directory of Producers. Mus. bul. 15. 1895. p.527. *Same*, Mus. rep. 48 (for 1894) 1895. 1:527 (2d paging).
Nason. Millstones of Ulster County. Geol. rep. 13 (for 1893) 1894. p.393-94, 401-5. *Same*, Mus. rep. 47 (for 1893) 1894. p.587-88, 595-99.
- Mimetite.** Whitlock. Mimetite. Mus. bul. 58. 1902. p.119.
- Mineral paints.** Beck. Stone Paints, Ochres. Min. N. Y. 1842. p.60-61.
Merrill. Mineral Paint. Mus. bul. 19. 1898. p.222-23. *Same*, Mus. rep. 51 (for 1897) 1899. 1:222-23.
Merrill. Mineral Paint; Directory of Producers. Mus. bul. 15. 1895. p.544. *Same*, Mus. rep. 48 (for 1894) 1895. 1:544 (2d paging).
Ries. Mineral Paint. Mus. bul. 35. 1900. p.848. *Same*, Mus. rep. 54 (for 1900) 1902. 2:848.
- Mineral springs.** Beck. Mineral Springs of the State of New York. Min. rep. (for 1837) 1838. p.10-73. Min. N. Y. 1842. p.99-167. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.112-17.
Beck. Catalogue of the Mineral Springs of New York, with their Composition: Table. Min. rep. (for 1837) 1838 following p.73. Min. N. Y. 1842. p.160-67.
Geddes. Mineral Springs of Onondaga County. Ag. Soc. Trans. 19 (for 1859) 1860. p.264-86.
Hall. Water and Springs. Geol. rep. 4th dist. (for 1838) 1839. p.335-38.
Hall. Springs. Geol. rep. 4th dist. (for 1839) 1840. p.448-50.
Hall. Mineral and Gas Springs in the Fourth District. Geol. N. Y. pt4. 1843. p.308-16.
Hall. Catalogue of Principal Mineral Springs in Fourth District, with their Geological Position and Products. Geol. N. Y. pt4. 1843. p.315-16.
Hall. Mineral Springs of Monroe County. Geol. rep. 4th dist. (for 1837) 1838. p.334-36. Geol. N. Y. pt4. 1843. p.426-28.
Hall. Springs of Niagara County. Geol. rep. 4th dist. (for 1837) 1838. p.365-66. Geol. N. Y. pt4. 1843. p.445-46.
Hall. Springs and Mineral Waters in Orleans County. Geol. rep. 4th dist. (for 1837) 1838. p.352-53. Geol. N. Y. pt4. 1843. p.436.
Hall. Mineral Waters of Wayne County. Geol. rep. 4th dist. (for 1837) 1838. p.317-18. Geol. N. Y. pt4. 1843. p.417-18.

Mineral springs (*continued*)

Horsford. Springs of Cattaraugus County. Geol. rep. 4th dist. (for 1839) 1840. p.464-65.

Mather. Mineral Springs. Geol. rep. 1st dist. (for 1839) 1840. p.235-36; (for 1840) 1841. p.108-11.

Mather. Springs of Columbia and Dutchess Counties. Geol. rep. 1st dist. (for 1837) 1838. p.173-76.

Mather. Springs. Geol. N. Y. pt1. 1843. p.88-109.

Merrill. Mineral Waters. Mus. bul. 15. 1895. p.561-63. *Same*, Mus. rep. 48 (for 1894) 1895. 1:561-63 (2d paging).

——— Mus. bul. 19. 1898. p.229-31. *Same*, Mus. rep. 51 (for 1897) 1899. 1:229-31.

Peale. Mineral Springs of New York; Analyses. Mus. bul. 15. 1895. p.563-78. *Same*, Mus. rep. 48 (for 1894) 1895. 1:563-78 (2d paging).

Vanuxem. Mineral Springs. Geol. N. Y. pt3. 1842. p.233-34.

Watson. Mineral Springs of Essex County. Ag. Soc. Trans. 12 (for 1852) 1853. p.803-7.

See also Carbonated springs; Nitrogen springs; Petrifying springs; Salt; Sulfur springs.

Mineralogic collection of museum: Additions. Mus. rep. 2, p.65-67; 3 *rev. ed.* p.31, 33-39; 4, p.73-90; 5, p.35-43; 6, p.25-27; 7, p.51-57; 8, p.23-26; 9, p.39-44; 13, p.19; 18, p.11-12; 19, p.39-41; 20, p.15-17; 21, p.15-17; 22, p.10-12; 23, p.17-19; 24, p.21-28; 25, p.19-21; 26, p.19-20; 27, p.30-33; 28, p.23-25; 29, p.22-23; 30, p.15-17; 31, p.13; 32, p.12; 34, p.16-19; 36, p.18-19; 37, p.28; 39, p.16-19; 40, p.23-26; 41, p.32-34; 42, p.62-64; 43, p.13-14, 29-30; 44, p.24-26; 45, p.28; 49, 1:9; 50, 1:15-17; 51, 1:r17-18; 52, 1:r24; 53, 1:r165.

For dates of Mus. rep. *see* List of publications, p.241.

Arrangement. Mus. rep. 29 (for 1875) 1878. p.16; 30 (for 1876) 1878. p.7-9; 42 (for 1888) 1889. p.39-41. Mus. bul. 58. 1902. p.136-38.

Beck. Catalogue of Specimens. Mus. rep. 1 (for 1847) 1848. p.21-33.

Catalogue of Gems and Precious Stones. Mus. rep. 41 (for 1887) 1888. p.44-48.

De Rham Collection. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.37-39.

Distribution of Duplicate Fossils and Minerals. Mus. rep. 35 (for 1881) 1884. p.19-27.

Gebhard Collection. Mus. rep. 25 (for 1871) 1873. p.27-33; 26 (for 1872) 1874. p.7.

Hough Collection. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.33-35; 4 (for 1850) 1851. p.82-90; 5 (for 1851) 1852. p.40-43.

List of Minerals in the General Collection of the Museum. Mus. rep. 38 (for 1884) 1885. p.21-60.

Nevius, *comp.* Preliminary List of Public Geological and Mineralogical Collections in the United States and Canada. Mus. rep. 50 (for 1896) 1898. 1:45-74 (1st paging).

Mineralogy. Beck. Report on Mineralogical Department of Natural History Survey. Assembly doc. 1837, no.161, p.15-60 (*ed.* 2, p.17-62); 1838, no.200, p.7-73; 1839, no.275, p.9-56; 1840, no.50, p.37-111; 1841, no. 150, p.3-23.

Beck. Tabular View of the Minerals of the State of New York. Min. rep. (for 1838) 1839. p.10-13.

Beck. Mineral Contents of Principal Rock Formations. Min. rep. (for 1839) 1840. p.46-54.

Beck. Mineralogy of New York. 1842. 536p. il. pl. sq. Q.

Beck. Report on the Mineralogy of New York comprising Notices of the Additions since 1842. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.109-53.

Mineralogy (*continued*)

- Emmons. Catalogue of Minerals of Second Geological District. Geol. rep. 2d dist. (for 1836) 1837. p.151-53 (ed. 2, p.153-55).
- Emmons. Minerals of Essex County. Geol. N. Y. pt2. 1842. p.285-87.
- Emmons. Minerals of St Lawrence County. Geol. N. Y. pt2. 1842. p. 365-66.
- Emmons. Minerals of Warren County. Geol. N. Y. pt2. 1842. p.192.
- Emmons. Composition of Simple Minerals. Ag. N. Y. 1846. 1:39-42.
- Hunt. On the Mineralogy of the Laurentian Limestones of North America. Mus. rep. 21 (for 1867) 1871. p.47-98.
- Mather. Useful Minerals of Catskill Division. Geol. N. Y. pt1. 1843. p.314-16.
- Mather. Crystallographical Examination of Some Minerals. Geol. N. Y. pt1. 1843. p.509-15.
- Merrill. Mineral Resources of New York State. Mus. bul. 15. 1895. p.359-595. 2 maps. *Same*, Mus. rep. 48 (for 1894) 1895. 1:359-595 (2d paging). 2 maps.
Economic and geologic map of New York State, 23x35cm.
Geologic map of a part of southeastern New York, 58x66cm.
- Merrill. Minerals. Mus. bul. 19. 1898. p.120-22. *Same*, Mus. rep. 51 (for 1897) 1899. 1:120-22.
- Nason. Some New York Minerals and their Localities. Mus. bul. 4. 1888. 19p. 1 pl. (phot.)
- Newton. Catalogue of the Minerals of Washington County. Ag. Soc. Trans. 9 (for 1849) 1850. p.857-62.
- References to Various Essays and Writings on the Natural History of New York. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.158; 4 (for 1850) 1851. p.115-16; 5 (for 1851) 1852. p.56-57.
- Vanuxem. Minerals. Geol. rep. 3d dist. (for 1838) 1839. p.283-84.
- Vanuxem. Theory of Veins. Geol. rep. 4th dist. (for 1836) 1837. p.201-4 (ed. 2, p.203-6).
- Whitlock. Guide to the Mineralogic Collections of the New York State Museum. Mus. bul. 58. 1902. 138p. 39pl. (phot.) 11 models.
Pt 1 General properties of minerals.
Pt 2 Description of mineral species.
See also names of minerals.
- Mining.** Hall. Importance and Application of Science to Mining. Geol. rep. 2d dist. (for 1836) 1837. p.145-48 (ed. 2, p.147-50).
See also Iron.
- Mispickel**, *see* Arsenopyrite.
- Mohawk language.** Bruyas. Radical Words of the Mohawk Language, with their Derivatives. Mus. rep. 16 (for 1862) 1863. 123p.
- Mohawk limestone.** ^aConrad. Mohawk Limestone. Pal. rep. (for 1838) 1839. p.63; (for 1840) 1841. p.29.
Emmons. Mohawk Limestone of Jefferson County. Geol. rep. 2d dist. (for 1839) 1840. p.324.
Mather. Mohawk Limestone. Geol. rep. 1st dist. (for 1840) 1841. p.91, 98-101. Geol. N. Y. pt1. 1843. p.402-6.
Vanuxem. Mohawk Limestone. Geol. rep. 3d dist. (for 1839) 1840. p.363-64, 370.
See also Mohawkian.
- Mohawk river.** Nason. Power at Cohoes. Geol. rep. 13 (for 1893) 1894. p.282-83, 287. *Same*, Mus. rep. 47 (for 1893) 1894. p.476-77, 481.
- Mohawk river valley.** Beck. Valley of the Mohawk and Western New York; Mineralogy. Min. rep. (for 1840) 1841. p.8-11.

^aFirst use of term.

Mohawk river valley (*continued*)

Beecher & Hall, C. E. Field Notes on the Geology of the Mohawk Valley, with a map. Geol. rep. 5 (for 1885) 1886. p.8-10. map; 14 (for 1894) 1895. p.54-56.

Map showing results of field work in Mohawk valley, 25x20.5cm.

Darton. Geology of the Mohawk Valley in Herkimer, Fulton, Montgomery and Saratoga Counties. Geol. rep. 13 (for 1893) 1894. p.407-29. pl. (phot.) *Same*, Mus. rep. 47 (for 1893) 1894. p.601-23. pl. (phot.)

Darton. Faulted Region of Herkimer, Fulton, Montgomery and Saratoga Counties. Geol. rep. 14 (for 1894) 1895. p.11-12, 31-53. pl. (phot.) map. *Same*, Mus. rep. 48 (for 1894) 1895. 2:11-12, 31-53. pl. (phot.) map.

Preliminary geologic map of portions of Herkimer, Fulton, Montgomery, Saratoga and adjacent counties (uncolored) 28.5x16.5cm.

Emmons. Climate. Ag. N. Y. 1846. 1:23-26.

Prosser & Cumings. Sections and Thickness of the Lower Silurian Formations on West Canada Creek and in the Mohawk Valley. Geol. rep. 15 (for 1895) 1897. p.23-24, 615-59. pl. (phot.) *Same*, Mus. rep. 49 (for 1895) 1898. 2:23-24, 615-59. pl. (phot.)

Prosser. Notes on the Stratigraphy of the Mohawk Valley and Saratoga County. Mus. bul. 34. 1900. p.469-82. 6pl. (phot.) map. *Same*, Mus. rep. 54 (for 1900) 1902. 1:469-82. 6pl. (phot.) map.

Geologic map of Amsterdam quadrangle, 44x32.5cm.

Vanuxem. Uplifts of the Mohawk. Geol. rep. 3d dist. (for 1837) 1838. p.255-57. Geol. N. Y. pt.3. 1842. p.203-11.

See also Geological survey 3d district.

Mohawk slate. Mather. Mohawk Slate (Black slate). Geol. rep. 1st dist. (for 1840) 1841. p.91, 92-94.

See also Utica shale.

Mohawkian. Clarke & Schuchert. Mohawkian. Mus. mem. 3. 1900. p.10. *Same*, Mus. rep. 53 (for 1899) 1901. 2:10.

Molding sand. Eckel. Molding Sand, its Uses, Properties and Occurrence. Geol. rep. 21 (for 1901). *In press*.

Merrill. Molding Sand. Mus. bul. 15. 1895. p.553. *Same*, Mus. rep. 48 (for 1894) 1895. 1:553 (2d paging).

——— Mus. bul. 19. 1898. p.225. *Same*, Mus. rep. 51 (for 1897) 1899. 1:225.

Nason. Molding Sands of Albany County. Geol. rep. 13 (for 1893) 1894. p.274-77, 286. *Same*, Mus. rep. 47 (for 1893) 1894. p.468-71, 480.

Mollusca. Aldrich. Partial List of Shells found near Troy, N. Y. Mus. rep. 22 (for 1863) 1869. p.17-24.

Carpenter. Catalogue of the Reigen Collection of Mazatlan Mollusca. Mus. rep. 13 (for 1859) 1860. p.21-36.

Catalogues. Mus. rep. 3 *rev. ed.*, p.43-48; 4, p.26; 6, p.24; 7, p.29-41; 8, p.21-22; 9, p.31-38; 11, p.37-42; 12, p.102-7; 13, p.21-36; 15, p.15-25; 20, p.19-54; 21, p.9; 22, p.15, 17-24; 24, p.18; 25, p.35-55; 27, p.43-46; 35, p.14; 44, p.27; 45, p.29-45; 46, p.23-27.

For dates of Mus. rep. *see* List of publications, p.241.

Catalogue of Shells given by Chester Dewey. Mus. rep. 9 (for 1855) 1856. p.31-38.

Catalogue of Shells presented by William Newcomb. Mus. rep. 11 (for 1857) 1858. p.37-42.

Catalogue of Shells from J. G. Anthony. Mus. rep. 15 (for 1861) 1862. p.15-21.

Catalogue of Shells contributed from the Duplicates collected by the Exploring Expedition, Smithsonian Institution. Mus. rep. 15 (for 1861) 1862. p.23-25.

Catalogue of Shells presented to the State Museum by the Smithsonian Institution in 1865 and 1866. Mus. rep. 20 (for 1866) 1867. p.19-54.

Mollusca (*continued*)

- Catalogue of European Shells, presented to the State Museum by the Smithsonian Institution in 1869. Mus. rep. 25 (for 1871) 1873. p.39-55.
- Corbiculidae of the New York State Collection. Mus. rep. 35 (for 1881) 1884. p.107.
- De Kay. Mollusca. Assembly doc. 1840. no.50. p.12, 31-34. Zool. N. Y. 1843. v.5. pt.5. 271p. 40pl.
- De Rham collection. Catalogue. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.43-48.
- Green. Notes on the American Shells, figured in the Supplement to the Index Testaceologicus. Alb. Inst. Trans. 1830. 1:134-36.
- Land Shells of the New York State Collection. Mus. rep. 35 (for 1881) 1884. p.102-6.
- Land Shells of the United States. Mus. rep. 35 (for 1881) 1884. p.108-11.
- List of British Mollusca purchased of P. P. Carpenter. Mus. rep. 12 (for 1858) 1859. p.102-5.
- List of Gould Types of Mollusca in State Museum Collection. Mus. rep. 27 (for 1873) 1875. p.47-55.
- List of Land and Fresh-water Shells presented to State Museum by T. H. Aldrich. Mus. rep. 27 (for 1873) 1875. p.43-46.
- List of Shells from H. Cuming. Mus. rep. 12 (for 1858) 1859. p.105-7.
- List of Long Island Mollusca presented to the State Museum. Mus. rep. 25 (for 1871) 1873. p.35-38.
- List of Shells presented to the State Museum by Dr James Lewis, Mar. 15, 1875. Mus. rep. 35 (for 1881) 1884. p.112-17.
- List of the Catalogues of Shells published in Former Annual Reports. Mus. rep. 44 (for 1890) 1892. p.27.
- Marshall. Land and Fresh-water Shells of New York exhibited at the World's Columbian Exposition, Chicago, Ill., 1893. Mus. rep. 47 (for 1893) 1894. p.49-75.
- Marshall. List of Shells inhabiting the Vicinity of Albany and Troy, N. Y. Mus. rep. 48 (for 1894) 1895. 1:641-47.
- See also* Brachiopoda; Cephalopoda; Gastropoda; Lamellibranchiata; Pteropoda; Unionidae.
- Mollusca** (paleozoic), *see* Brachiopoda; Cephalopoda; Gastropoda; Lamellibranchiata; Pteropoda.
- Molluscoidea**, *see* Bryozoa.
- Molybdenite**. Beck. Sulphuret of Molybdenum. Min. rep. (for 1836) 1837. p.59 (ed. 2, p.61). Min. N. Y. 1842. p.438-39.
- Hunt. Sulphuret of Molybdenum. Mus. rep. 21 (for 1867) 1871. p.91.
- Merrill. Localities. Mus. bul. 15. 1895. p.581. *Same*, Mus. rep. 48 (for 1894) 1895. 1:581 (2d paging).
- — — Mus. bul. 19. 1898. p.233. *Same*, Mus. rep. 51 (for 1897) 1899. 1:233.
- Monazite**. Beck. Monazite. Min. N. Y. 1842. p.452. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.152.
- Whitlock. Monazite. Mus. bul. 58. 1902. p.117.
- Monroe county**. Beck. Mineralogy. Min. rep. (for 1839) 1840. p.76-77.
- Bishop. Natural Gas. Geol. rep. 17 (for 1897) 1899. p.28. *Same*, Mus. rep. 51 (for 1897) 1899. 2:28.
- Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.563-64. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:563-64.
- — — Ent. rep. 16 (for 1900) 1901. p.1013-14. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1013-14.
- Hall. Monroe County. Geol. rep. 4th dist. (for 1837) 1838. p.327-47. Geol. N. Y. pt.4. 1843. p.422-33.

Monroe county (*continued*)

Ries. Brick Yards. Mus. bul. 12. 1895. p.203-4, 248. *Same*, Mus. rep. 48 (for 1894) 1895. 1:203-4, 248 (2d paging).

— — *revised*. Mus. bul. 35. 1900. p.720-22. *Same*, Mus. rep. 54 (for 1900) 1902. 2:720-22.

Ries. Limestones. Geol. rep. 17 (for 1897) 1899. p.441-42. *Same*, Mus. rep. 51 (for 1897) 1899. 2:441-42.

— — *revised*. Mus. bul. 44. 1901. p.794-98. *Same*, Mus. rep. 54 (for 1900) 1902. 3:794-98.

Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.59, 133; 10. 1890. p.253, 254, 261-62.

— — *revised* by Merrill. Mus. bul. 15. 1895. p.397, 447. *Same*, Mus. rep. 48 (for 1894) 1895. 1:397, 447 (2d paging).

Monroe shales. Ries. Monroe Shales of Orange County. Geol. rep. 15 (for 1895) 1897. p.404. *Same*, Mus. rep. 49 (for 1895) 1898. 2:404.

Montgomery county. Beck. Mineralogy. Min. rep. (for 1839) 1840. p.77.

Cummings. Lower Silurian System of Eastern Montgomery County. Mus. bul. 34. 1900. p.415-68. 4pl. (phot.) map. *Same*, Mus. rep. 54 (for 1900) 1902. 1:415-68. 4pl. (phot.) map.

Geologic map of Amsterdam quadrangle, 44x32.5cm.

Darton. Geology of the Mohawk Valley in Herkimer, Fulton, Montgomery and Saratoga Counties. Geol. rep. 13 (for 1893) 1894. p.407-29. pl. (phot.) *Same*, Mus. rep. 47 (for 1893) 1894. p.601-23. pl. (phot.)

Darton. Faulted Region. Geol. rep. 14 (for 1894) 1895. p.11-12, 31-53. pl. (phot.) map. *Same*, Mus. rep. 48 (for 1894) 1895. 2:11-12, 31-53. pl. (phot.) map.

Preliminary geologic map of portions of Herkimer, Fulton, Montgomery, Saratoga and adjacent counties (uncolored) 28.5x16.5cm.

Felt. Entomological Reports from. Ent. rep. 16 (for 1900) 1901. p.1014. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1014.

— — Ent. rep. 17 (for 1901) 1902. p.787. (Mus. bul. 53).

Kemp & Hill. Precambrian Formations. Geol. rep. 19 (for 1899) 1901. p.17-35. pl. (phot.) maps. *Same*, Mus. rep. 53 (for 1899) 1901. 1:17-35. pl. (phot.) maps.

Small, uncolored geologic maps.

Map of the "Noses" (colored).

Ries. Brick Yards. Mus. bul. 12. 1895. p.197, 198, 246. *Same*, Mus. rep. 48 (for 1894) 1895. 1:197, 198, 246 (2d paging).

— — Mus. bul. 35. 1900. p.713, 714. *Same*, Mus. rep. 54 (for 1900) 1902. 2:713, 714.

Ries. Limestones. Geol. rep. 17 (for 1897) 1899. p.442-44. *Same*, Mus. rep. 51 (for 1897) 1899. 2:442-44.

— — *revised*. Mus. bul. 44. 1901. p.798-99. *Same*, Mus. rep. 54 (for 1900) 1902. 3:798-99.

Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.106-12; 10. 1890. p.243-45.

— — *revised* by Merrill. Mus. bul. 15. 1895. p.437-39. *Same*, Mus. rep. 48 (for 1894) 1895. 1:437-39 (2d paging).

Vanuxem. Montgomery County. Geol. rep. 3d dist. (for 1837) 1838. p.257-66. Geol. N. Y. pt3. 1842. p.249-53.

Montrose sandstone (Oneonta; Portage). *a*Vanuxem. Montrose Sandstone, or Sandstone of Oneonta. Geol. rep. 3d dist. (for 1839) 1840. p.381.

See also Oneonta sandstone; Portage sandstone.

Moors quadrangle. Cushing. Geology of Rand Hill and Vicinity, Clinton County. Geol. rep. 19 (for 1899) 1901. p.r37-82. 2 maps. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r37-82. 2 maps.

Geologic maps of parts of Clinton county, 33x22, 10.5x5cm.

- Mortar.** Ries. *Mortar*. Geol. rep. 17 (for 1897) 1899. p.386. *Same*, Mus. rep. 51 (for 1897) 1899. 2:386.
 ——— Mus. bul. 44. 1901. p.672-73. *Same*, Mus. rep. 54 (for 1900) 1902. 3:672-73.
- Moscow shale.** Bishop. *Moscow Shale of Erie County*. Geol. rep. 15 (for 1895) 1897. p.320. *Same*, Mus. rep. 49 (for 1895) 1898. 2:320.
- Conrad. *Moscow shales*. Pal. rep. (for 1839) 1840. p.206.
- Delafield. *Moscow Shale of Seneca County*. Ag. Soc. Trans. 10 (for 1850) 1851. p.455.
- Emmons. *Moscow Shales*. Ag. N. Y. 1846. 1:188.
- Grabau. *Moscow Shales*. Geol. rep. 16 (for 1896) 1899. p.234-35. *Same*, Mus. rep. 50 (for 1896) 1899. 2:234-35.
- ^aHall. *Moscow Shales*. Geol. rep. 4th dist. (for 1838) 1839. p.298-300. Geol. N. Y. pt4. 1843. p.187.
- Hall. *Moscow Shale in Erie County*. Geol. rep. 4th dist. (for 1840) 1841. p.163-64. Geol. N. Y. pt4. 1843. p.473.
- Hall. *Moscow Shale of Genesee County*. Geol. rep. 4th dist. (for 1839) 1840. p.430. Geol. N. Y. pt4. 1843. p.467.
- Hall. *Moscow Shale in Livingston County*. Geol. rep. 4th dist. (for 1839) 1840. p.421. Geol. N. Y. pt4. 1843. p.462.
- Hall. *Moscow Shale of Yates County*. Geol. rep. 4th dist. (for 1838) 1839. p.316-17.
- Luther. *Moscow Shales in Livonia Salt Shaft*. Geol. rep. 13 (for 1893) 1894. p.42. *Same*, Mus. rep. 47 (for 1893) 1894. p.236.
- Wright. *Moscow Shale in Yates County*. Mus. rep. 35 (for 1881) 1884. p.203-4.
- Vanuxem. *Moscow Shales*. Geol. rep. 3d dist. (for 1839) 1840. p.380.
See also Erie division; Hamilton group.
- Mosquito.** Lintner. *The Mosquito*. Ent. rep. 12 (for 1896) 1897. p.319-35. *Same*, Mus. rep. 50 (for 1896) 1898. 1:319-35.
- Mosses.** Peck. *Catalogue of Mosses presented to the State of New York by C. H. Peck*. Mus. rep. 18 (for 1864) 1865. p.193-96.
 Peck. *List of Mosses of the State of New York*. Mus. rep. 19 (for 1865) 1866. p.42-70.
 Peck. *The Mosses of Caledonia Creek*. Mus. rep. 32 (for 1878) 1879. p.73-74.
- Moths**, *see* Lepidoptera.
- Mound builders**, *see* Aborigines.
- Mounds.** Vanuxem. *Mounds*. Geol. N. Y. pt3. 1842. p.247-48.
- Mt Marcy**, *see* Adirondacks.
- Mt Seward.** Colvin. *Ascent of Mt Seward and its Barometrical Measurement*. Mus. rep. 24 (for 1870) 1872. p.171-80. 1pl.
- Mountains.** Hall. *Theory of Formation*. Pal. N. Y. 1859. 3.66-73, 82-88, 95-96.
- Muck swamps.** Hall. *Muck Swamps*. Geol. rep. 4th dist. (for 1839) 1840. p.444-45. Geol. N. Y. pt4. 1843. p.359-60.
- Muriate of lime**, *see* Chlorid of lime.
- Muscovite.** Merrill. *Localities*. Mus. bul. 15. 1895. p.582. *Same*, Mus. rep. 48 (for 1894) 1895. 1:582 (2d paging).
 ——— Mus. bul. 19. 1898. p.234. *Same*, Mus. rep. 51 (for 1897) 1899. 1:234.
 Merrill. *Muscovite*. Mus. bul. 19. 1898. p.122. *Same*, Mus. rep. 51 (for 1897) 1899. 1:122.

^aFirst use of term.

Muscovite (*continued*)

Nason. Muscovite. Mus. bul. 4. 1888. p.9.

Whitlock. Muscovite. Mus. bul. 58. 1902. p.110-11.

Museums. Merrill. Directory of Natural History Museums in United States and Canada. Mus. bul. 62. *In press.*

Nevius, *comp.* Preliminary List of Public Geological and Mineralogical Collections in the United States and Canada. Mus. rep. 50 (for 1896) 1898. 1:45-74 (1st paging).

See also New York State Museum.

Mushroom phora. Lintner. Mushroom Phora. Ent. rep. 10 (for 1894) 1895. p.399-406. *Same*, Mus. rep. 48 (for 1894) 1895. 1:399-406 (1st paging).**Mushrooms,** *see* Fungi.**Myriapoda.** Additions to Collection. Ent. rep. 3, p.142; 4, p.208; 5, p.326; 6, p.190; 7, p.384; 9, p.464; 10, p.513, 519; 12, p.364; 13, p.375; 14, p.263; 15, p.620.

For dates of reports, *see* List of publications, p.264.

Nantucket pine moth. Felt. Nantucket Pine Moth. Forest, Fish and Game Com. rep. 7 (for 1901). *In press.***Naphtha.** Beck. Naphtha. Min. N. Y. 1842. p.183.**Naples quadrangle.** Clarke. Stratigraphy of the Canandaigua and Naples Quadrangles. Mus. bul. 63. 2 maps. *In press.***^aNaples shales (Cashaqua; Gardeau; Portage).** Clarke. Annelid Teeth from the Lower Portion of the Hamilton Group and from the Naples Shales of Ontario County, N. Y. Geol. rep. 6 (for 1886) 1887. p.30-32. 1pl.

Clarke. Naples Fauna. Geol. rep. 15 (for 1895) 1897. p.52-57. *Same*, Mus. rep. 49 (for 1895) 1898. 2:52-57.

Clarke. The Naples Fauna (fauna with *Manticoceras intumescens*) in Western New York. Geol. rep. 16 (for 1896) 1899. p.29-161. illus. 9pl. *Same*, Mus. rep. 50 (for 1896) 1899. 2:29-161. illus. 9pl.

Clarke. Naples Fauna. Mus. bul. 52. 1902. p.670.

Clarke. Naples Fauna in Western New York. Mus. mem. 6. *In press.*

Clarke & Schuchert. Naples Beds. *See* New York series.

Grabau. Naples Shales. Geol. rep. 16 (for 1896) 1899. p.233-34. *Same*, Mus. rep. 50 (for 1896) 1899. 2:233-34.

See also Cashaqua shale; Gardeau group; Portage group.

Naples valley. Luther. Stratigraphic Position of the Portage Sandstones in the Naples Valley and the Adjoining Region. Geol. rep. 15 (for 1895) 1897. p.13-14, 223-36. pl. (phot.) map. *Same*, Mus. rep. 49 (for 1895) 1898. 2:13-14, 223-36. pl. (phot.) map.

Geologic map of the township of Naples, 17x16.5cm.

Nassau county. Woodworth. Pleistocene Geology of Portions of Nassau County and Borough of Queens. Mus. bul. 48. 1901. p.617-64. pl. (phot.) maps. *Same*, Mus. rep. 54 (for 1900) 1902. 4:617-64. pl. (phot.) maps.

Sketch map of a part of Long Island, 22.5x18.5cm.

Natrolite. Beck. Natrolite. Min. N. Y. 1842. p.344.

Whitlock. Natrolite. Mus. bul. 58. 1902. p.110.

Natron. Beck. Carbonate of Soda. Natron. Min. rep. (for 1838) 1839. p.17. Min. N. Y. 1842. p.197-98.**Natural gas.** Bishop. Natural Gas of Erie County. Geol. rep. 15 (for 1895) 1897. p. 346-89. *Same*, Mus. rep. 49 (for 1895) 1898. 2:346-89.

— — — Geol. rep. 17 (for 1897) 1899. p.25-26. *Same*, Mus. rep. 51 (for 1897) 1899. 2:25-26.

^aTerm proposed by J. M. Clarke in 1885, *see* U. S. Geol. Surv. Bul. 16. p.36.

Natural gas (*continued*)

Bishop. Report on Petroleum and Natural Gas in Western New York. Geol. rep. 17 (for 1897) 1899. p.9-63. map. *Same*, Mus. rep. 51 (for 1897) 1899. 2:9-63. map.

Map of the Cattaraugus oil and gas district, 34.5x24cm.

Bishop. Oil and Gas in Southwestern New York. Geol. rep. 19 (for 1899) 1901. p.r105-34. map. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r105-34. map.

Map of a portion of Allegany county, N. Y. showing the outline of the proven oil and gas territory. Aug. 1, 1899, by John W. Greenwood, 25.5x17cm.

Lincoln. Gas Wells of Seneca County. Geol. rep. 14 (for 1894) 1895. p.120-22. *Same*, Mus. rep. 48 (for 1894) 1895. 2:120-22.

Merrill. Petroleum and Illuminating Gas. Mus. bul. 15. 1895. p.557-60. *Same*, Mus. rep. 48 (for 1894) 1895. 1:557-60 (2d paging).

— — — Mus. bul. 19. 1898. p.227-28. *Same*, Mus. rep. 51 (for 1897) 1899. 1:227-28.

Nason. Natural Gas in Albany County. Geol. rep. 13 (for 1893) 1894. p.281-82. *Same*, Mus. rep. 47 (for 1893) 1894. p.475-76.

Orton. Petroleum and Natural Gas in New York. Mus. bul. 30. 1899. p.395-526. 3 maps. *Same*, Mus. rep. 53 (for 1899) 1901. 1:395-526. 3 maps.

Map of Oswego county and Onondaga county, 23x13cm.

Lake shore belt of Chautauqua county, 22x7cm.

Sketch map of central New York, 14x9cm.

See also Petroleum.

Natural history. Beck. Address delivered before the Lyceum of Natural History at its First Anniversary, March 1, 1824. Alb. Inst. Trans. 1830. 1:137-47.

References to Various Essays and Writings on the Natural History of New York. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.155-60; 4 (for 1850) 1851. p.113-16; 5 (for 1851) 1852. p.55-57.

Natural History Survey of the State of New York. New York Geological and Mineralogical Reports, 1837-41. 2v. Alb. 1840.

Reprinted from Assembly doc. 1837, no.161; 1838, no.200; 1839, no.275; 1840, no.50; 1841, no.150.

New York State. Natural History of New York. 1842-94. 30v. illus. pl. maps. Q.

aContents: De Kay, J. E. Zoology of New York, 1842-44. Torrey, John. Flora of New York, 1843. Beck, L. C. Mineralogy of New York, 1842. Mather, Emmons, Vanuxem & Hall. Geology of New York. 1842-43. Emmons, Ebenezer, Agriculture of New York. 1846-51. Hall, James. Paleontology of New York. 1847-94.

Legislative and other documents: Report of the Secretary of State in relation to a Geological Survey of the State. 60p. Assembly doc. 1836, no.9.

Law passed 15 Ap. 1836. Ch. 142.

Descriptive Pamphlet issued by the Four Geologists. 1837. 8p.

Report of the Select Committee on so much of the Governor's Message as relates to the Geological Survey. 16p. Assembly doc. 1840, no.338.

Communication from the Governor in Relation to the Progress of the Geological Survey. 8p. Senate doc. 1842, no.68.

Report of the Secretary of State. 20p. Assembly doc. 1844, no.87.

Report of the Select Committee. 15p. Senate doc. 1845, no.123.

Report of the Minority of the Select Committee. 8p. Senate doc. 1845, no.124.

Communication from the Governor and Secretary of State Relative to the Disposal of the Volumes of the Natural History of the State. 5p. Assembly doc. 1846, no.41.

— Report of the Regents of the University on the Condition of the Cabinets of Natural History, with documents from Emmons and Hall. 10p. Senate doc. 1846, no.91.

Report of the Select Committee. 16p. Assembly doc. 1846, no.172.

Act Authorizing an Abridged Publication of the Natural History of the State of New York. Assembly doc. 1846, no.172, 377.

Communication from Emmons relating to the Averill and Skinner Veins, Essex County. p.7-9. Assembly doc. 1847, no.211.

Report of the Committee on Literature on the Letter of Prof. Agassiz. 4p. Senate doc. 1847, no.155.

Report of the Select Committee appointed to investigate the Matters connected with the Publication of the State Work on Natural History. 178p. Assembly doc. 1850, no.9.

Review of the Report of the Select Committee. 8p.

Natural History Survey of the State of New York (*continued*)

- Strictures of E. Emmons upon Certain Parts of the Report of the Select Committee. 14p.
 Report of the Committee of Ways and Means. 5p. Assembly doc. 1850, no.186.
 Report of the Commissioners appointed to superintend the Completion of the Publication of the Natural History of the State of New York. 64p. Assembly doc. 1851, no.124.
 — 25p. Assembly doc. 1852, no.23.
 — 12p. Assembly doc. 1853, no.74.
 — 13p. Assembly doc. 1856, no.150.
 Report of the Select Committee on the Completion of the Natural History of the State. 16p. Assembly doc. 1856, no.211.

Hall. Geological Survey of New York. Ag. Soc. Trans. 3 (for 1843) 1844. p.241-78.

Hall. Geological Survey. Public Service of the State of New York. 1882. 2:367-80.

Also published in Pop. Sci. Monthly, Ap. 1883. 22:815-25.

Hall. Reorganization of Survey recommended. Mus. rep. 44 (for 1890) 1892. p.15-16.

Materials belonging to the State used in publishing the Natural History and the Annual Reports. Mus. rep. 5 (for 1851) 1852. p.65-66; 6 (for 1852) 1853. p.31-32; 7 (for 1853) 1854. p.127; 8 (for 1854) 1855. p.41-44; 9 (for 1855) 1856. p.61-63.

Merrill. The Natural History Survey of New York and the Origin of the State Museum. Mus. bul. 19. 1898. p.240-45. *Same*, Mus. rep. 51 (for 1897) 1899. 1:240-45.

Merrill. History of the New York Geologic Surveys. Mus. bul. 56. 1902. p.5-10.

Map of New York showing geologic districts, 22.5x17.5cm.

Order of Publication of the Volumes. Mus. rep. 7 (for 1853) 1854. p.125.

Vanuxem. Division of Districts of Geological Survey. Geol. rep. 4th dist. (for 1836) 1837. p.209-10 (ed. 2, p.211-12).

See also New York State Museum.

Natural rock cement, *see* Cement.

Neelytown limestone. Ries. Neelytown Limestone. Geol. rep. 15 (for 1895) 1897. p.442-43. *Same*, Mus. rep. 49 (for 1895) 1898. 2:442-43.

See also Black river limestone.

Nemalite. Beck. Nemalite. Min. N. Y. 1842. p.272. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.131-32.

Nephelite. Whitlock. Nephelite. Mus. bul. 58. 1902. p.97.

Neuropteroid insects. Additions to Collection. Ent. rep. 4, p.208; 5, p.326; 6, p.189; 8, p.300; 9, p.464; 10, p.512; 11, p.288; 12, p.364; 13, p.375; 14, p.259, 262; 15, p.613, 619; 16, p.1042, 1046; 17, p.819, 824; 18, p.174.

For dates of reports, *see* List of publications, p.264.

Felt. Species Treated. Ent. rep. 10 (for 1894) 1895. p.463-80. *Same*, Mus. rep. 48 (for 1894) 1895. 1:463-80 (1st paging).

— — Ent. rep. 14 (for 1898) 1898. p.216-18. (Mus. bul. 23). *Same*, Mus. rep. 52 (for 1898) 1900. 1:216-18.

— — Forest, Fish and Game Com. rep. 6 (for 1900) 1901. p.503-28.

Lintner. Species Treated. Ent. rep. 2 (for 1882 and 1883) 1885. p.198-210, 235-41.

— — Ent. rep. 4 (for 1887) 1888. p.121-24. *Same*, Mus. rep. 41 (for 1887) 1888. p. 241-44.

— — Ent. rep. 8 (for 1891) 1893. p.155-62. *Same*, Mus. rep. 45 (for 1891) 1892. p.155-62.

— — Ent. rep. 11 (for 1895) 1896. p.234-54. *Same*, Mus. rep. 49 (for 1895) 1897. 1:234-54.

— — Ent. rep. 12 (for 1896) 1897. p.298-99. *Same*, Mus. rep. 50 (for 1896) 1898. 1:298-99 (1st paging).

Neuropteroid insects (continued)

Needham & Betten. Species Treated. Mus. bul. 47. 1901. p.412-573.

Same, Mus. rep. 54 (for 1901) 1902. 4:412-573.

Needham & others. Species Treated. Mus. bul. 68. *In press*.

Species

The following list of species includes only the more important accounts by Lintner, in Ent. rep. 11; by Felt in Ent. rep. 10, 14, Ag. Soc. Trans. 59; by Needham and others in Mus. bul. 47. For dates of reports and bulletins, see p.264.

Anax junius. Mus. bul. 47, p.471-72. Same, Mus. rep. 54, 4:471-72.

Baetis pygmaea. Mus. bul. 47, p. 421-23. Same, Mus. rep. 54, 4:421-23.

Basiaeschna janata. Mus. bul. 47, p.466-67. Same, Mus. rep. 54, 4:466-67.

Bittacus. Ent. rep. 10, p.463-80. Same, Mus. rep. 48, 1:463-80.

Boyeria vinosa. Mus. bul. 47, p.464-66. Same, Mus. rep. 54, 4:464-66.

Caenis diminuta. Mus. bul. 47, p.426-27. Same, Mus. rep. 54, 4:426-27.

Celithemis elisa. Mus. bul. 47, p.515. Same, Mus. rep. 54, 4:515.

Celithemis eponina. Mus. bul. 47, p.514-15. Same, Mus. rep. 54, 4:514-15.

Chloroperla bilineata. Mus. bul. 47, p.414-15. Same, Mus. rep. 54, 4:414-15.

Climacia dictyona. Mus. bul. 47, p.558-60. Same, Mus. rep. 54, 4:558-60.

Cordulegaster maculatus. Mus. bul. 47, p.476-77. Same, Mus. rep. 54, 4:476-77.

Cordulia shurtleffi. Mus. bul. 47, p.502-3. Same, Mus. rep. 54, 4:502-3.

Didymops transversa. Mus. bul. 47, p.481-82. Same, Mus. rep. 54, 4:481-82.

Dorocordulia libera. Mus. bul. 47, p.504-5. Same, Mus. rep. 54, 4:504-5.

Dromogomphus spinosus. Mus. bul. 47, p.461-62. Same, Mus. rep. 54, 4:461-62.

Ephemera varia. Mus. bul. 47, p.429. Same, Mus. rep. 54, 4:429.

Ephemerella excrucians. Mus. bul. 47, p.425-26. Same, Mus. rep. 54, 4:425-26.

Epiaeschna heros. Mus. bul. 47, p.468-69. Same, Mus. rep. 54, 4:468-69.

Epicordulia princeps. Mus. bul. 47, p.488-89. Same, Mus. rep. 54, 4:488-89.

Gomphus abbreviatus. Mus. bul. 47, p.448. Same, Mus. rep. 54, 4:448.

Gomphus brevis. Mus. bul. 47, p.449-50. Same, Mus. rep. 54, 4:449-50.

Gomphus descriptus. Mus. bul. 47, p.452-54. Same, Mus. rep. 54, 4:452-54.

Gomphus exilis. Mus. bul. 47, p.455-56. Same, Mus. rep. 54, 4:455-56.

Gomphus fraternus. Mus. bul. 47, p.451. Same, Mus. rep. 54, 4:451.

Gomphus scudderi. Mus. bul. 47, p.456-57. Same, Mus. rep. 54, 4:456-57.

Gomphus spicatus. Mus. bul. 47, p.459-60. Same, Mus. rep. 54, 4:459-60.

Gomphus villosipes. Mus. bul. 47, p.460-61. Same, Mus. rep. 54, 4:460-61.

Hagenius brevistylus. Mus. bul. 47, p.440-41. Same, Mus. rep. 54, 4:440-41.

Halesus *sp.*? Mus. bul. 47, p.567-70. Same, Mus. rep. 54, 4:567-70.

Helocordulia uhleri. Mus. bul. 47, p.497-98. Same, Mus. rep. 54, 4:497-98.

Heptagenia pulchella. Mus. bul. 47, p.420-21. Same, Mus. rep. 54, 4:420-21.

Hexagenia variabilis. Mus. bul. 47, p.427-28. Same, Mus. rep. 54, 4:427-28.

Hydropsyche *sp.*? Mus. bul. 47, p.566-67. Same, Mus. rep. 54, 4:566-67.

Ladona julia. Mus. bul. 47, p.530. Same, Mus. rep. 54, 4:530.

Lanthus parvulus. Mus. bul. 47, p.441-42. Same, Mus. rep. 54, 4:441-42.

Neuropteroid insects (*continued*)

- Leucorhinia glacialis. Mus. bul. 47, p.518-19. *Same*, Mus. rep. 54, 4:518-19.
- Leucorhinia intacta. Mus. bul. 47, p.517. *Same*, Mus. rep. 54, 4:517.
- Leuctra tenella. Mus. bul. 47, p.416-18. *Same*, Mus. rep. 54, 4:416-18.
- Libellula auripennis. Mus. bul. 47, p. 532-33. *Same*, Mus. rep. 54, 4:532-33.
- Libellula basalis. Mus. bul. 47, p.532. *Same*, Mus. rep. 54, 4:532.
- Libellula cyanea. Mus. bul. 47, p.534. *Same*, Mus. rep. 54, 4:534.
- Libellula pulchella. Mus. bul. 47, p.536. *Same*, Mus. rep. 54, 4:536.
- Libellula quadrimaculata. Mus. bul. 47, p.534-35. *Same*, Mus. rep. 54, 4:534-35.
- Mesothemis simplicicollis. Mus. bul. 47, p.527-28. *Same*, Mus. rep. 54, 4:527-28.
- Molanna cinerea. Mus. bul. 47, p. 564-65. *Same*, Mus. rep. 54, 4:564-65.
- Nannothemis bella. Mus. bul. 47, p.509-11. *Same*, Mus. rep. 54, 4:509-11.
- Nasiaeschna pentacantha. Mus. bul. 47, p.467-68. *Same*, Mus. rep. 54, 4:467-68.
- Neurocordulia obsoleta. Mus. bul. 47, p.486-87. *Same*, Mus. rep. 54, 4:486-87.
- Odonata-Zygoptera and Anisoptera. Mus. bul. 68. *In press*.
- Ophiogomphus aspersus. Mus. bul. 47, p.437-38. *Same*, Mus. rep. 54, 4:437-38.
- Ophiogomphus carolus. Mus. bul. 47, p.439. *Same*, Mus. rep. 54, 4:439.
- Pachydiplax longipennis. Mus. bul. 47, p.526-27. *Same*, Mus. rep. 54, 4:526-27.
- Panorpa. Ent. rep. 10, p.463-80. *Same*, Mus. rep. 48, 1:463-80.
- Pantala flavescens. Mus. bul. 47, p.539-40. *Same*, Mus. rep. 54, 4:539-40.
- Perithemis domitia. Mus. bul. 47, p.512-13. *Same*, Mus. rep. 54, 4:512-13.
- Plathemis lydia. Mus. bul. 47, p.536-37. *Same*, Mus. rep. 54, 4:536-37.
- Polycentropus lucidus. Mus. bul. 47, p.565-66. *Same*, Mus. rep. 54, 4:565-66.
- Sialidae. Mus. bul. 68. *In press*.
- Sialis infumata. Mus. bul. 47, p.542-44. *Same*, Mus. rep. 54, 4:542-44.
- Siphurus alternatus. Mus. bul. 47, p.423-25. *Same*, Mus. rep. 54, 4:423-25.
- Sisyrha umbrata. Mus. bul. 47, p.555-57. *Same*, Mus. rep. 54, 4:555-57.
- Somatochlora elongata. Mus. bul. 47, p.499-500. *Same*, Mus. rep. 54, 4:499-500.
- Sympetrum semicinctum. Mus. bul. 47, p.523-24. *Same*, Mus. rep. 54, 4:523-24.
- Sympetrum vicinum. Mus. bul. 47, p.522-23. *Same*, Mus. rep. 54, 4:522-23.
- Tachopteryx thoreyi. Mus. bul. 47, p.472-73. *Same*, Mus. rep. 54, 4:472-73.
- Thermobia furnorum. Ent. rep. 14, p.216-18. (Mus. bul. 23). *Same*, Mus. rep. 52, 1:216-18.
- Ag. Soc. Trans. 59, p.301.
- Thrips tabaci. Ent. rep. 11, p.241-47. *Same*, Mus. rep. 49, 1:241-47.
- Tramea carolina. Mus. bul. 47, p.538. *Same*, Mus. rep. 54, 4:538.
- Tramea lacerata. Mus. bul. 47, p.539. *Same*, Mus. rep. 54, 4:539.
- New Baltimore.** Marshall. Report on a Deposit of Marl and Peat in New Baltimore. Mus. rep. 45 (for 1891) 1892. p.46-52.

- New Jersey.** Webster. Annelida Chaetopoda of New Jersey. Mus. rep. 32 (for 1878) 1879. p.101-28; 39 (for 1885) 1886. p.128-59. pl.4-10.
- aNew Red Sandstone.** Conrad. New Red Sandstone or Saliferous System. Pal. rep. (for 1840) 1841. p.43-44.
- Emmons. New Red Sandstone. Ag. N. Y. 1846. 1 200-1.
- Gale. Red Sandstone of New York County. Geol. rep. 1st dist. (for 1838) 1839. p.191.
- Kümmel. The Newark or New Red Sandstone Rocks of Rockland County, N. Y. Geol. rep. 18 (for 1898) 1899. p.9-50. pl. (phot.) map. *Same*, Mus. rep. 52 (for 1898) 1900. 2:9-50. pl. (phot.) map. Map showing Triassic rocks of Rockland county, 45x44cm.
- Mather. Red Sandstone or Freestone. Geol. N. Y. pt1. 1843. p.287.
- Mather. Red Sandstone of Rockland County. Geol. rep. 1st dist. (for 1838) 1839. p.123-26.
- Mather. Red Sandstone Division. Geol. N. Y. pt1. 1843. p.285-94. *See also* Triassic.
- New Scotland limestone (Catskill shaly; Delthyris shaly).** ^bClarke & Schuchert. New Scotland Beds. Mus. mem. 3. 1900. p.11. *Same*, Mus. rep. 53 (for 1899) 1901. 2:11.
- New York city and county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.78-79.
- Gale. Geology. Geol. rep. 1st dist. (for 1838) 1839. p.177-99.
- Gale. Borings for Water. Geol. N. Y. pt1. 1843. p.136-40.
- Gale. Boulders. Geol. N. Y. pt1. 1843. p.178-84.
- Gale. Grooves, Furrows and Scratches. Geol. N. Y. pt1. 1843. p.209-10.
- Gale. Island of New York, Geology and Mineralogy. Geol. N. Y. pt1. 1843. p.518-24.
- Gale. Diary of a Geological Survey of the Island of New York. Geol. N. Y. pt1. 1843. p.581-604.
- Howell. Relief Map of New York and Vicinity. 22.5x14.5cm. Mus. rep. 51 (for 1897) 1899. v.1, facing p.12.
- Howell. Relief Map of Manhattan Island. 32x12cm. 1898. Mus. rep. 52 (for 1898) 1900. v.1.
- Mather. Economic Geology. Geol. rep. 1st dist. (for 1838) 1839. p.72-114.
- Mather. Limestone. Geol. N. Y. pt1. 1843. p.451-52.
- Mather. Primary Rocks. Geol. N. Y. pt1. 1843. p.525-34.
- Mather. Miscellaneous Remarks. Geol. N. Y. pt1. 1843. p.542-49.
- Mather. Dip and Strike of Rocks. Geol. N. Y. pt1. 1843. p.606-9.
- Mather. Map. Geol. N. Y. pt1. 1843. pl.1.
- Merrill. Geological Map, showing the Distribution of Rocks used as Building Stones. 22x35cm. Mus. bul. 15. 1895. description, p.370. *Same*, Mus. rep. 48 (for 1894) 1895. v.1. description, p.370 (2d paging).
- Ries. Limestone Formations. Mus. bul. 44. 1901. p.800. *Same*, Mus. rep. 54 (for 1900) 1902. 3:800.
- Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.25, 36-37; 10. 1890. p.228-29, 234.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.375, 429. *Same*, Mus. rep. 48 (for 1894) 1895. 1:375, 429 (2d paging).
- Smock. Stone Construction in. Mus. bul. 10. 1890. p.283-316.
- New York series.** Clarke & Schuchert. Nomenclature of New York Series of Geological Formations. Mus. mem. 3. 1900. p.8-12. *Same*, Mus. rep. 53 (for 1899) 1901. 2:8-12. Originally published in Science, Dec. 8, 1899. Table also published in Mus. bul. 45. 1901. p.20-21.

^aTerm first used by Hitchcock. Geol. of Mass. Final rep't. 1841. 2:434-531.

^bFirst use of term in original publication of this article. Science. 1899. new ser. 10:877.

New York series (*continued*)

- Dennistoun. New York System. Ag. Soc. Trans. 22 (for 1862) 1863. p.154-55.
- Emmons. New York Transition System. Geol. N. Y. pt2. 1842. p.99-126. Ag. N. Y. 1846. 1:113-206.
- Emmons. New York System in Vermont. Geol. N. Y. pt2. 1842. p.279-82.
- Emmons. Extension of the New York System in Canada. Geol. N. Y. pt2. 1842. p.407-8.
- Emmons. Tabular View of the Sedimentary Rocks of New York. Geol. N. Y. pt2. 1842. p.429.
- Hall. On the Basis of Nomenclature. Geol. rep. 4th dist. (for 1838) 1839. p.288-90.
- Hall. Rocks and Fossils. Geol. rep. 4th dist. (for 1839) 1840. p.453-55.
- Hall. Section from Mouth of the Genesee River to Instantur, Penn. Geol. rep. 1837-41. v.2. Assembly doc. 1838, no.200.
- Hall. Tabular View of the Rocks and Groups described in the Geological Reports of New York; their Extent and Agreement with those of Europe. Geol. N. Y. pt4. 1843. p.17-25.
- Hall. On the Identity of the Rock Formations of the Western States with those of New York. Geol. N. Y. pt4. 1843. p.500-15.
- Hall. On the Identity of the New York Formations with those of Europe; Table of Equivalents in American Strata. Geol. N. Y. pt4. 1843. p.516-20.
- Hall. Discussion of Formations, Comparisons with Rocks of other Parts of United States and of Canada. Pal. N. Y. 1859. v.3. *introd.* p.1-65.
- Mather. New York System. Geol. N. Y. pt1. 1843. p.298-421.
- Merrill. Geologic Formations of New York. Mus. bul. 19. 1898. p.137-38. *Same*, Mus. rep. 51 (for 1897) 1899. 1:137-38.
- Merrill. Table showing Progress made in Classification. Mus. bul. 56. 1902. facing p.34.
- Vanuxem. Enumeration of Rocks; Tabular View. Geol. N. Y. pt3. 1842. p.11-16.
- Vanuxem. New York System. Geol. N. Y. pt3. 1842. p.24-202.
- Vertical Section showing Relative Thickness of the Different Rocks. Geol. rep. 1837-41. v.2. Assembly doc. 1838, no.200.
- See also* Transition system.

New York State Museum. Act to regulate the State Museum of Natural History, and the Publication of the Palaeontology of the State; Contracts relating to Publication of Palaeontology. Mus. rep. 37 (for 1883) 1884. p.11-18.

Addresses delivered at the Inauguration of the State Geological Hall, Aug. 27, 1856. Mus. rep. 10 (for 1856) 1857. p.11-28.

Hall. State Museum of Natural History. Public Service of the State of New York. 1882. 3:482-88.

Hall. Educational Uses of Museums of Natural History. Regents rep. 100 (for 1886) 1887. p.208-13.

Hall. Plan of the Museum. Mus. rep. 42 (for 1888) 1889. p.18-24.

Merrill. The Natural History Survey of New York and the Origin of the State Museum. Mus. bul. 19. 1898. p.240-45. *Same*, Mus. rep. 51 (for 1897) 1899. 1:240-45.

New York State Museum. University handbook 5. 14p.

Revised edition in press.
Outlines history and work of museum; with list of staff and scientific publications, 1893.

Special Report of the Regents of the University in Relation to the State Cabinet of Natural History. Mus. rep. 19 (for 1865) 1866. p.8-32.

Statistics relating to Museum as compiled from Tenth Census. Mus. rep. 35 (for 1881) 1884. p.118-19.

New York State Museum (*continued*)

Statement of the Space now occupied, and an Estimate of the Space required for the Collections and Offices of the State Museum. Mus. rep. 39 (for 1885) 1886. p.24-29.

See also Natural History Survey of the State of New York.

Newark formation, *see* New red sandstone.

Newburg. Smock. Stone Construction in. Mus. bul. 10, 1890. p.319-20.

Newburg limestone. ^aMather. Newburg Limestone. Geol. rep. 1st dist. (for 1839) 1840. p.257.

See also Calciferous sandrock.

Niagara county. Beck. Mineralogy. Min. rep. (for 1839) 1840. p.79-80.

Bishop. Natural Gas. Geol. rep. 17 (for 1897) 1899. p.29-30. *Same*, Mus. rep. 51 (for 1897) 1899. 2:29-30.

Felt. Entomological Reports from. Ent. rep. 16 (for 1900) 1901. p.1014. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1014.

— — — Ent. rep. 17 (for 1901) 1902. p.787-88. (Mus. bul. 53).

Hall. Niagara County. Geol. rep. 4th dist. (for 1837) 1838. p.359-73. Geol. N. Y. pt4. 1843. p.440-48.

Ries. Brick Yards. Mus. bul. 12. 1895. p.204-5, 248. *Same*, Mus. rep. 48 (for 1894) 1895. 1:204-5, 248 (2d paging).

— — — Mus. bul. 35. 1900. p.722. *Same*, Mus. rep. 54 (for 1900) 1902. 2:722.

Ries. Limestones. Geol. rep. 17 (for 1897) 1899. p.444-45. *Same*, Mus. rep. 51 (for 1897) 1899. 2:444-45.

— — — *revised*. Mus. bul. 44. 1901. p.800-1. *Same*, Mus. rep. 54 (for 1900) 1902. 3:800-1.

Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.70-71, 133-34; 10. 1890. p.254-55, 265.

— — — *revised* by Merrill. Mus. bul. 15. 1895. p.397, 400, 447-48. *Same*, Mus. rep. 48 (for 1894) 1895. 1:397, 400, 447-48 (2d paging).

Niagara falls. Grabau. Guide to the Geology and Paleontology of Niagara Falls and Vicinity; with a chapter on Post-pliocene Fossils of Niagara by Elizabeth J. Letson. Mus. bul. 45. 1901. 284p. 18pl. (phot.) map. *Same*, Mus. rep. 54 (for 1900) 1902. 4:3-284. 18pl. (phot.) map.

Geologic map of Niagara river, 84.5x38cm. Contains a partial bibliography of the geology of Niagara and the Great lakes.

Hall. Niagara Falls and River. Geol. rep. 4th dist. (for 1837) 1838. p.371-73. Geol. N. Y. pt4. 1843. p.383-404.

Facsimile of a view of Niagara falls by Father Louis Hennepin, 1698. Geol. N. Y. pt4.

Trigonometric survey and map. Geol. N. Y. pt4.

Niagara group. Emmons. Niagara Group. Ag. N. Y. 1846. 1:150-52.

Hall. Niagara Group. Geol. N. Y. pt4. 1843. p.80-117. Pal. N. Y. 1852. 2:2-4; 1859. 3:25-30, 41-42.

Hall. Niagara Group in Monroe County. Geol. N. Y. pt4. 1843. p.422.

Hall. Niagara Group in Niagara County. Geol. N. Y. pt4. 1843. p.440.

Hall. Niagara Group in Orleans County. Geol. N. Y. pt4. 1843. p.433.

Hall. Niagara Group in Wayne County. Geol. N. Y. pt4. 1843. p.414.

Hall. Mineral Contents. Geol. N. Y. pt4. 1843. p.98-99.

Hall. Organic Remains. Geol. N. Y. pt4. 1843. p.100-17. Pal. N. Y. 1852. 2:106-295, 302-20, 354-55.

Hall. New Species of Fossils from a Locality of the Niagara Group in Indiana, with a List of Identified Species from the Same Place. Alb. Inst. Trans. 1858-64. 4:195-228.

Read before the Albany Institute, Ap. 29, 1862

Niagara group (continued)

- Hall. Descriptions of New or Little Known Species of Fossils from Rocks of the Age of the Niagara Group. Mus. rep. 20 (for 1866) 1867. p.305-401. pl.10-23.
- Hall. The Niagara and Lower Helderberg Groups; their Relations and Geographical Distribution in the United States and Canada. Mus. rep. 27 (for 1873) 1875. p.117-31. map 70x50cm.
- Hall. Description of New Species of Fossils from the Niagara Formation at Waldron, Indiana. Alb. Inst. Trans. 1883. 10:57-76.
Read before the Albany Institute, Mar. 18, 1879.
- Hall. Fauna of the Niagara Group in Central Indiana. Mus. rep. 28 (for 1874) 1879. p.99-203. 32pl.
- Hall. Descriptions of Fossil Corals from the Niagara and Upper Helderberg Groups. Mus. rep. 35 (for 1881) 1884. p.407-64. pl.23-30.
- Lincklaen. Niagara Group; Fossils. Mus. rep. 14 (for 1860) 1861. p.53-56.
- Luther. Niagara Group. Geol. rep. 16 (for 1896) 1899. p.204-5. *Same*, Mus. rep. 50 (for 1896) 1899. 2:204-5.
- Merrill. Niagara Group. Mus. bul. 19. 1898. p.153-54. *Same*, Mus. rep. 51 (for 1897) 1899. 1:153-54.
- ^aVanuxem. Niagara Group. Geol. N. Y. pt3. 1842. p.90-94.
- Vanuxem. Niagara Group in Cayuga County. Geol. N. Y. pt3. 1842. p.286.
- Vanuxem. Niagara Group in Madison County. Geol. N. Y. pt3. 1842. p.272.
- Vanuxem. Niagara Group in Oneida County. Geol. N. Y. pt3. 1842. p.262-63.
- Vanuxem. Niagara Group in Onondaga County. Geol. N. Y. pt3. 1842. p.278.
- Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.94.
- ^bNiagara limestone (Lockport). Bishop. Niagara Limestone of Erie County. Geol. rep. 15 (for 1895) 1897. p.390. *Same*, Mus. rep. 49 (for 1895) 1898. 2:390.
- Darton. Niagara Limestone. Geol. rep. 13 (for 1893) 1894. p.218. *Same*, Mus. rep. 47 (for 1893) 1894. p.412.
- Darton. Coralline Limestone (Niagara limestone) of Ulster County. Geol. rep. 13 (for 1893) 1894. p.307. *Same*, Mus. rep. 47 (for 1893) 1894. p.501.
- Emmons. Niagara Limestone. Ag. N. Y. 1846. 1:151.
- Geddes. Niagara Limestone of Onondaga County. Ag. Soc. Trans. 19 (for 1859) 1860. p.245.
- Hall. Niagara Limestone. Geol. N. Y. pt4. 1843. p.84-97.
- Hall. Organic Remains. Pal. N. Y. 1852. 2:321-38.
- Luther. Niagara Limestone of Onondaga County. Geol. rep. 15 (for 1895) 1897. p.247-50. *Same*, Mus. rep. 49 (for 1895) 1898. 2:247-50.
- Ries. Niagara Limestone. Geol. rep. 17 (for 1897) 1899. p.363-64. *Same*, Mus. rep. 51 (for 1897) 1899. 2:363-64.
- — — *revised*. Mus. bul. 44. 1901. p.758-59. *Same*, Mus. rep. 54 (for 1900) 1902. 3:758-59.
- Ries. Niagara Limestone of Cayuga County. Mus. bul. 44. 1901. p.772. *Same*, Mus. rep. 54 (for 1900) 1902. 3:772.
- Ries. Niagara Limestone of Genesee County. Mus. bul. 44. 1901. p.783. *Same*, Mus. rep. 54 (for 1900) 1902. 3:783.
- Ries. Niagara Limestones of Madison County. Mus. bul. 44. 1901. p.793. *Same*, Mus. rep. 54 (for 1900) 1902. 3:793.

^aFirst use of term.^bTerm first used by Hall. Amer. Jour. Sci. 1842. ser. 1. 42-58.

Niagara limestone (*continued*)

- Ries. Niagara Limestone of Monroe County. Geol. rep. 17 (for 1897) 1899. p.441-42. *Same*, Mus. rep. 51 (for 1897) 1899. 2:441-42.
 ——— *revised*. Mus. bul. 44. 1901. p.794-95. *Same*, Mus. rep. 54 (for 1900) 1902. 3:794-95.
- Ries. Niagara Limestone of Niagara County. Geol. rep. 17 (for 1897) 1899. p.444-45. *Same*, Mus. rep. 51 (for 1897) 1899. 2:444-45.
 ——— *revised*. Mus. rep. 44. 1901. p.800-1. *Same*, Mus. rep. 54 (for 1900) 1902. 3:800-1.
- Ries. Niagara Limestone of Oneida County. Mus. bul. 44. 1901. p.802. *Same*, Mus. rep. 54 (for 1900) 1902. 3:802.
- Ries. Niagara Limestone of Onondaga County. Geol. rep. 17 (for 1897) 1899. p.447. *Same*, Mus. rep. 51 (for 1897) 1899. 2:447.
 ——— *revised*. Mus. bul. 44. 1901. p.803. *Same*, Mus. rep. 54 (for 1900) 1902. 3:803.
- Ries. Niagara Limestones of Orleans County. Mus. bul. 44. 1901. p.810-11. *Same*, Mus. rep. 54 (for 1900) 1902. 3:810-11.
- Ries. Coralline or Niagara Limestone of Ulster County. Geol. rep. 17 (for 1897) 1899. p.459. *Same*, Mus. rep. 51 (for 1897) 1899. 2:459.
 ——— *revised*. Mus. bul. 44. 1901. p.824. *Same*, Mus. rep. 54 (for 1900) 1902. 3:824.
- Ries. Niagara Limestone of Wayne County. Mus. bul. 44. 1901. p.828. *Same*, Mus. rep. 54 (for 1900) 1902. 3:828.
- Smock. Niagara Limestone. Mus. bul. 3. 1888. p.21; 10. 1890. p.211-12.
 ——— *revised* by Merrill. Mus. bul. 15. 1895. p.427. *Same*, Mus. rep. 48 (for 1894) 1895. 1:427 (2d paging).
 ——— *revised* by Merrill. Mus. bul. 19. 1898. p.201. *Same*, Mus. rep. 51 (for 1897) 1899. 1:201.
- Smock. Quarries. Mus. bul. 3. 1888. p.94-134; 10. 1890. p.254-55.
 ——— *revised* by Merrill. Mus. bul. 15. 1895. p.447-48. *Same*, Mus. rep. 48 (for 1894) 1895. 1:447-48 (2d paging).
See also Guelph formation; Lockport limestone.
- Niagara river.** Bishop. Preglacial Erosion. Geol. rep. 15 (for 1895) 1897. p.325-26. *Same*, Mus. rep. 49 (for 1895) 1898. 2:325-26.
See also Niagara falls.
- Niagara river, red sandstone,** *see* Red sandstone of Niagara.
- aNiagara shale (Rochester).** Emmons. Niagara Shale. Ag. N. Y. 1846. 1:151.
 Hall. Niagara Shale. Geol. N. Y. pt4. 1843. p.81-83.
 Ries. Niagara Shale. Geol. rep. 15 (for 1895) 1897. p.690. *Same*, Mus. rep. 49 (for 1895) 1898. 2:690.
 ——— Mus. bul. 35. 1900. p.828-29. *Same*, Mus. rep. 54 (for 1900) 1902. 2:828-29.
See also Rochester shale.
- Niagaran.** Clarke & Schuchert. Niagaran. Mus. mem. 3. 1900. p.10. *Same*, Mus. rep. 53 (for 1899) 1901. 2:10.
- Niccolite.** Whitlock. Niccolite. Mus. bul. 58. 1902. p.56.
- Nickel.** Whitlock. Nickel. Mus. bul. 58. 1902. p.56.
- Niter.** Beck. Nitre. Min. N. Y. 1842. p.453.
 Mather. Nitrates of Lime and Potassa. Geol. N. Y. pt1. 1843. p.85.
- Nitrate of lime.** Beck. Nitrate of Lime. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.152.

- Nitrogen.** Beck. Nitrogen Gas. Min. rep. (for 1838) 1839. p.14. Min. N. Y. 1842. p.174-75.
- Nitrogen springs.** Beck. Nitrogen Springs. Min. rep. (for 1837) 1838. p.47-48. Min. N. Y. 1842. p.133-34. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.116.
- Emmons. Springs of Chateaugay. Geol. rep. 2d dist. (for 1836) 1837. p.122-23 (ed. 2, p.124-25).
- Hall. Nitrogen Springs. Geol. N. Y. pt4. 1843. p.308-9, 451.
- Mather. Gaseous and Thermal Springs. Geol. N. Y. pt1. 1843. p.104-8.
- Nomenclature,** *see* New York series.
- Norite.** Smock. Norite. Mus. bul. 10. 1890. p.205.
See also Crystalline rocks; Gabbros.
- Normanskill shales.** Ruedemann. Normanskill Beds (Lower Dicellograptus zone). Mus. bul. 42. 1901. p.538-44, 550-52. *Same*, Mus. rep. 54 (for 1900) 1902. 3:538-44, 550-52.
- Ruedemann. Trenton Conglomerate of Rysedorph Hill, Rensselaer Co. N. Y. and its Fauna. Mus. bul. 49. 1901. p.3-114. 7pl.
- Nunda group,** *see* Portage group.
- Oak caterpillar.** Felt. Yellow Striped Oak Caterpillar. Forest, Fish and Game Com. rep. 7 (for 1901). *In press.*
- Oak worm.** Lintner. Orange Striped Oak Worm. Ent. rep. 5 (for 1888) 1889. p.192-200. *Same*, Mus. rep. 42 (for 1888) 1889. p.192-200.
- Oaktrees,** *see* Forest trees.
- Ochers.** Beck. Stone Paints, Ochres. Min. N. Y. 1842. p.60-61.
- Octahedrite.** Beck. Anatase. Min. N. Y. 1842. p.428.
Whitlock. Octahedrite. Mus. bul. 58. 1902. p.76.
- Odonata,** *see* Neuropteroid insects.
- Ohio.** Hall. New Species of Fossils from the Hudson River Group of Ohio and other Western States. Mus. rep. 13 (for 1859) 1860. p.119-21; 14 (for 1860) 1861. p.89-92.
Hall & Whitfield. Notice of Three New Species of Fossil Shells from the Devonian of Ohio. Mus. rep. 23 (for 1869) 1873. p.240-41.
See also Cincinnati; Waverly sandstone.
- Oil,** *see* Petroleum.
- Old red sandstone (Catskill formation).** Conrad. Old Red Sandstone Group. Pal. rep. (for 1838) 1839. p.62.
Conrad. Old Red Sandstone or Devonian System. Pal. rep. (for 1840) 1841. p.41-42.
Hall. Old Red Sandstone. Geol. rep. 4th dist. (for 1839) 1840. p.393-94. Geol. N. Y. pt4. 1843. p.278-83.
Hall. Old Red Sandstone of Chautauqua County. Geol. rep. 4th dist. (for 1840) 1841. p.172.
Hall. Old Red Sandstone of Steuben County. Geol. rep. 4th dist. (for 1839) 1840. p.397. Geol. N. Y. pt4. 1843. p.482.
Hall. Organic Remains. Geol. N. Y. pt4. 1843. p.280-83.
See also Catskill division; Catskill formation; Devonian.
- Olean quadrangle.** Clarke. Paleontologic Results of the Areal Survey. Mus. bul. 52. 1902. p.524-28.
Glenn & Butts. Stratigraphy and Paleontology of the Olean quadrangle. Pal. rep. (for 1902). *In press.*
- Oligoclase.** Hunt. Oligoclase. Mus. rep. 21 (for 1867) 1871. p.81-82.
Merrill. Oligoclase. Mus. bul. 19. 1898. p.121. *Same*, Mus. rep. 51 (for 1897) 1899. 1:121.
Whitlock. Oligoclase. Mus. bul. 58. 1902. p.90.

- Olive shale**, *see* Erie division; Hamilton group.
- Olivenite**. Whitlock. Olivenite. Mus. bul. 58. 1902. p.120.
- Olivin**. Merrill. Olivine. Mus. bul. 19. 1898. p.122. *Same*, Mus. rep. 51 (for 1897) 1899. 1:122.
See also Chrysolite.
- Omphalia**. Peck. New York Species of Omphalia. Bot. rep. 45 (for 1891) 1893. p.32-42. *Same*, Mus. rep. 45 (for 1891) 1892. p.92-102.
- Oneida conglomerate (Shawangunk grit)**. Clarke & Schuchert. Oneida Conglomerate. *See* New York series.
- Emmons. Oneida Conglomerate. Ag. N. Y. 1846. 1:125-26.
- Hall. Oneida Conglomerate. Geol. N. Y. pt4. 1843. p.31. Pal. N. Y. 1852. 2:1.
- Lincklaen. Oneida Conglomerate. Mus. rep. 14. (for 1860) 1861. p.51.
- Luther. Oneida Conglomerate. Geol. rep. 16 (for 1896) 1899. p.201. *Same*, Mus. rep. 50 (for 1896) 1899. 2:201.
- Merrill. Oneida Conglomerate. Mus. bul. 19. 1898. p.151-52. *Same*, Mus. rep. 51 (for 1897) 1899. 1:151-52.
- Smock. Oneida Conglomerate. Mus. bul. 10. 1890. p.218-19.
— — *revised* by Merrill. Mus. bul. 15. 1895. p.385. *Same*, Mus. rep. 48 (for 1894) 1895. 1:385 (2d paging).
— — *revised* by Merrill. Mus. bul. 19. 1898. p.189. *Same*, Mus. rep. 51 (for 1897) 1899. 1:189.
- ^aVanuxem. Oneida Conglomerate. Geol. rep. 3d dist. (for 1839) 1840. p.374. Geol. N. Y. pt3. 1842. p.75-78.
- Vanuxem. Oneida Conglomerate in Cayuga County. Geol. N. Y. pt3. 1842. p.286.
- Vanuxem. Oneida Conglomerate in Herkimer County. Geol. N. Y. pt3. 1842. p.257.
- Vanuxem. Oneida Conglomerate in Oneida County. Geol. N. Y. pt3. 1842. p.262.
- White. Oneida Conglomerate Stage. Mus. rep. 51 (for 1897) 1899. 1:r36. *See also* Shawangunk grit.
- Oneida county**. Beck. Mineralogy. Min. rep. (for 1839) 1840. p.80-81.
- Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.564. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:564.
— — Ent. rep. 16 (for 1900) 1901. p.1014. (Mus. bul. 36. *Same*, Mus. rep. 54 (for 1900) 1902. 2:1014.
— — Ent. rep. 17 (for 1901) 1902. p.788. (Mus. bul. 53).
- Orton. Petroleum and Natural Gas. Mus. bul. 30. 1899. p.476-83. *Same*, Mus. rep. 53 (for 1899) 1901. 1:476-83.
- Paine. Catalogue of Plants found in Oneida County and Vicinity. Mus. rep. 18 (for 1864) 1865. p.53-192.
- Ries. Brick Yards. Mus. bul. 12. 1895. p.197, 198-99, 248. *Same*, Mus. rep. 48 (for 1894) 1895. 1:197, 198-99, 248 (2d paging).
— — Mus. bul. 35. 1900. p.713, 714-15. *Same*, Mus. rep. 54 (for 1900) 1902. 2:713, 714-15.
- Ries. Limestones. Geol. rep. 17 (for 1897) 1899. p.445-46. *Same*, Mus. rep. 51 (for 1897) 1899. 2:445-46.
— — *revised*. Mus. bul. 44. 1901. p.801-3. *Same*, Mus. rep. 54 (for 1900) 1902. 3:801-3.
- Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.57, 59, 71, 113-15, 122; 10. 1890. p.246-47, 250, 260, 261, 273.

^aFirst use of term.

Oneida county (*continued*)

- — — *revised* by Merrill. Mus. bul. 15. 1895. p.395-96, 397, 439-40, 443. *Same*, Mus. rep. 48 (for 1894) 1895. 1:395-96, 397, 439-40, 443 (2d paging).
- Vanuxem. Oneida County. Geol. rep. 3d dist. (for 1837) 1838. p.273-80. Geol. N. Y. pt3. 1842. p.259-64.
- White. Report on the Relations of the Ordovician and Eo-Silurian Rocks in Portions of Herkimer, Oneida and Lewis Counties. Mus. rep. 51 (for 1897) 1899. 1:r21-54. pl. (phot.) 2 maps.
Map of the vicinity of Frankfort hill, 31.5x16.5cm.
Map of the Precambrian border in Oneida and Lewis counties, 49.5x16cm.
- Oneida lake.** Geddes. Oneida Lake. Ag. Soc. Trans. 19 (for 1859) 1860 p.259.
- Vanuxem. Oneida Lake. Geol. N. Y. pt3. 1842. p.241.
- Oneonta sandstone (Portage).** Beecher, C. E., Hall, C. E. & Hall, J. W. Note on the Oneonta Sandstone in the Vicinity of Oxford, Chenango Co., N. Y. Geol. rep. 5 (for 1885) 1886. p.11.
- Clarke. Oneonta Sandstones and Shales in Chenango County. Geol. rep. 13 (for 1893) 1894. p.531-57. *Same*, Mus. rep. 47 (for 1893) 1894. p.725-51.
- Clarke. Stratigraphic and Faunal Relations of the Oneonta Sandstones and Shales, the Ithaca and the Portage Groups in Central New York. Geol. rep. 15 (for 1895) 1897. p.11-12, 27-81. pl. (phot.) 2 maps 25x28.5, 26x26.5cm. *Same*, Mus. rep. 49 (for 1895) 1898. 2:11-12, 27-81. pl.(phot.) 2 maps 25x28.5. 26x26.5cm.
- Clarke. A Remarkable Occurrence of Orthoceras in the Oneonta Beds of the Chenango Valley, N. Y. Mus. bul. 39. 1900. p.167-71. *Same*, Mus. rep. 54 (for 1900) 1902. 3:167-71.
- Clarke. Oneonta Fauna. Mus. bul. 52. 1902. p.671.
- Clarke & Schuchert. Oneonta Beds. *See* New York series.
- Conrad. Oneonta Group. Pal. rep. (for 1840) 1841. p.31.
- Darton. Oneonta Formation in Albany County. Geol. rep. 13 (for 1893) 1894. p.238-40. *Same*, Mus. rep. 47 (for 1893) 1894. p.432-34.
- Prosser. Classification and Distribution of the Hamilton and Chemung Series of Central and Eastern New York. Pt1, Geol. rep. 15 (for 1895) 1897. p.12-13, 83-222. pl. (phot.) map. Pt2, Geol. rep. 17 (for 1897) 1899. p.65-315. pl. (phot.) map. *Same*, Pt1, Mus. rep. 49 (for 1895) 1898. 2:12-13, 83-222. pl. (phot.) map. Pt2, Mus. rep. 51 (for 1897) 1899. 2:65-315. pl. (phot.) map.
Pt1, Geologic map of parts of Chenango, Madison, Otsego, Schoharie and Albany counties, 58x33.5cm.
Pt2, Map showing distribution of middle and upper Devonian rocks in central-eastern New York, 61x38.5cm.
Map of Delaware county by W. L. Fisher, 34x32cm.
- Prosser. Oneonta Formation. Geol. rep. 17 (for 1897) 1899. p.74-315. *Same*, Mus. rep. 51 (for 1897) 1899. 2:74-315.
- Smock. Oneonta Sandstone. Mus. bul. 3. 1888. p.17; 10. 1890. p.222-23.
— — — *revised* by Merrill. Mus. bul. 15. 1895. p.388. *Same*, Mus. rep. 48 (for 1894) 1895. 1:388 (2d paging).
— — — *revised* by Merrill. Mus. bul. 19. 1898. p.193. *Same*, Mus. rep. 51 (for 1897) 1899. 1:193.
- ^aVanuxem. Montrose Sandstone, or Sandstone of Oneonta. Geol. rep. 3d dist. (for 1839) 1840. p.381.
See also Portage sandstones.
- Onion thrips.** Lintner. Onion Thrips. Ent. rep. 11 (for 1895) 1896. p.241-47. *Same*, Mus. rep. 49 (for 1895) 1897. 1:241-47.

^aFirst use of term.

- Onondaga county.** Beck. Brine Springs. Min. rep. (for 1837) 1838. p.24-36; (for 1840) 1841. p.18-23. Min. N. Y. 1842. p.103-8, 110.
- Beck. Mineralogy. Min. rep. (for 1839) 1840. p.81-82.
- Bishop. Oil and Gas. Geol. rep. 19 (for 1899) 1901. p.r125-26. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r125-26.
- Clarke. Agoniatite Limestone. Mus. bul. 49. 1901. p.117-19.
- Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.564-65. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:564-65.
- Ent. rep. 16 (for 1900) 1901. p.1014-15. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1014-15.
- Ent. rep. 17 (for 1901) 1902. p.788-89. (Mus. bul. 53.)
- Geddes. Survey of. Ag. Soc. Trans. 19 (for 1859) 1860. p.219-352. illus. map.
- Geographic and topographic map of Onondaga co. by George Geddes, 79x57.5cm.
- Luther. Economic Geology. Geol. rep. 15 (for 1895) 1897. p.4-16, 237-303. pl. (phot.) 2 maps. *Same*, Mus. rep. 49 (for 1895) 1898. 2:14-16, 237-303. pl. (phot.) 2 maps.
- Map of Onondaga county (uncolored) 34x34cm.
- Geologic map of Onondaga county (colored) 34x38cm.
- Orton. Petroleum and Natural Gas. Mus. bul. 30. 1899. p.459-76. *Same*, Mus. rep. 53 (for 1899) 1901. 1:459-76.
- Ries. Brick Yards. Mus. bul. 12. 1895. p.199-202, 248. *Same*, Mus. rep. 48 (for 1894) 1895. 1:199-202, 248 (2d paging).
- Mus. bul. 35. 1900. p.715-18. *Same*, Mus. rep. 54 (for 1900) 1902. 2:715-18.
- Ries. Limestones. Geol. rep. 17 (for 1897) 1899. p.446-50. *Same*, Mus. rep. 51 (for 1897) 1899. 2:446-50.
- *revised*. Mus. bul. 44. 1901. p.803-7. *Same*, Mus. rep. 54 (for 1900) 1902. 3:803-7.
- Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.122-25; 10. 1890. p.250-52.
- *revised* by Merrill. Mus. bul. 15. 1895. p.443-44. *Same*, Mus. rep. 48 (for 1894) 1895. 1:443-44 (2d paging).
- Vanuxem. Geology. Geol. rep. 3d dist. (for 1838) 1839. p.245-85. Geol. N. Y. pt3. 1842. p.277-85.
- Onondaga lake.** Geddes. Onondaga Lake. Ag. Soc. Trans. 19 (for 1859) 1860. p.259-60.
- Vanuxem. Onondaga Lake. Geol. N. Y. pt3. 1842. p.241-42.
- Onondaga limestone (Upper Helderberg; Corniferous; Seneca).** Bishop. Onondaga Limestone of Erie County. Geol. rep. 15 (for 1895) 1897. p.313, 331-32, 390. *Same*, Mus. rep. 49 (for 1895) 1898. 2:313, 331-32, 390.
- Clarke. Onondaga Limestone in Ontario County. Geol. rep. 4 (for 1884) 1885. p.10.
- Clarke. Onondaga Fauna. Mus. bul. 52. 1902. p.667-68.
- Clarke & Schuchert. Onondaga Limestone. *See* New York series.
- Conrad. Onondaga Limestone Series. Geol. rep. 3d dist. (for 1836) 1837. p.178-81 (ed. 2, p.180-83). Pal. rep. (for 1840) 1841. p.31.
- Darton. Onondaga Limestone. Geol. rep. 13 (for 1893) 1894. p.207-8. *Same*, Mus. rep. 47 (for 1893) 1894. p.401-2.
- Darton. Onondaga Limestone in Albany County. Geol. rep. 13 (for 1893) 1894. p.242-43. *Same*, Mus. rep. 47 (for 1893) 1894. p.436-37.
- Darton. Onondaga Limestone of Ulster County. Geol. rep. 13 (for 1893) 1894. p.301-2. *Same*, Mus. rep. 47 (for 1893) 1894. p.495-96.
- Emmons. Onondaga Limestone. Ag. N. Y. 1846. 1:174-79.
- Geddes. Onondaga Limestone of Onondaga County. Ag. Soc. Trans. 19 (for 1859) 1860. p.251.

Onondaga limestone (*continued*)

- Hall. Onondaga Limestone. Geol. N. Y. pt4. 1843. p.151-60.
- Hall. Onondaga Limestone in Erie County. Geol. rep. 4th dist. (for 1840) 1841. p.156-58. Geol. N. Y. pt4. 1843. p.471.
- Hall. Onondaga Limestone of Genesee County. Geol. rep. 4th dist. (for 1839) 1840. p.427-29. Geol. N. Y. pt4. 1843. p.466.
- Hall. Onondaga Limestone of Livingston County. Geol. rep. 4th dist. (for 1839) 1840. p.418-20. Geol. N. Y. pt4. 1843. p.460.
- ^aHall. Gray Crinoidal or Onondaga Limestone of Ontario County. Geol. rep. 4th dist. (for 1838) 1839. p.309-10. Geol. N. Y. pt4. 1843. p.456.
- Hall. Organic Remains. Geol. N. Y. pt4. 1843. p.157-60.
- Lincklaen. Onondaga Limestone. Mus. rep. 14 (for 1860) 1861. p.60.
- Lincoln. Onondaga Limestone of Seneca County. Geol. rep. 14 (for 1894) 1895. p.87-89. *Same*, Mus. rep. 48 (for 1894) 1895. 2:87-89.
- Luther. Onondaga Limestone. Geol. rep. 16 (for 1896) 1899. p.214-16. *Same*, Mus. rep. 50 (for 1896) 1899. 2:214-16.
- Luther. Onondaga Limestones in Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p.45-47. *Same*, Mus. rep. 47 (for 1893) 1894. p.239-41.
- Luther. Onondaga Limestone of Onondaga County. Geol. rep. 15 (for 1895) 1897. p.275-79. *Same*, Mus. rep. 49 (for 1895) 1898. 2:275-79.
- Mather. Onondaga Limestone. Geol. N. Y. pt1. 1843. p.339.
- Mather. Fossils. Geol. N. Y. pt1. 1843. p.339.
- Ries. Onondaga Limestone. Geol. rep. 17 (for 1897) 1899. p.366-67. *Same*, Mus. rep. 51 (for 1897) 1899. 2:366-67.
- Ries. Upper Helderberg Limestone. Mus. bul. 44. 1901. p.765. *Same*, Mus. rep. 54 (for 1900) 1902. 3:765.
- Ries. Onondaga Limestone of Albany County. Geol. rep. 17 (for 1897) 1899. p.429. *Same*, Mus. rep. 51 (for 1897) 1899. 2:429.
- — *revised*. Mus. bul. 44. 1901. p.769-72. *Same*, Mus. rep. 54 (for 1900) 1902. 3:769-72.
- Ries. Upper Helderberg Limestone of Cayuga County. Mus. bul. 44. 1901. p.772-73. *Same*, Mus. rep. 54 (for 1900) 1902. 3:772-73.
- Ries. Onondaga Limestones of Erie County. Geol. rep. 17 (for 1897) 1899. p.435-36. *Same*, Mus. rep. 51 (for 1897) 1899. 2:435-36.
- — *revised*. Mus. bul. 44. 1901. p.779, 780-81. *Same*, Mus. rep. 54 (for 1900) 1902. 3:779, 780-81.
- Ries. Upper Helderberg Limestone of Greene County. Mus. bul. 44. 1901. p.786. *Same*, Mus. rep. 54 (for 1900) 1902. 3:786.
- Ries. Upper Helderberg Limestone of Onondaga County. Geol. rep. 17 (for 1897) 1899. p.448-50. *Same*, Mus. rep. 51 (for 1897) 1899. 2:448-50.
- — *revised*. Mus. bul. 44. 1901. p.803, 806-7. *Same*, Mus. rep. 54 (for 1900) 1902. 3:803, 806-7.
- Ries. Upper Helderberg Limestone of Ontario County. Mus. bul. 44. 1901. p.807-8. *Same*, Mus. rep. 54 (for 1900) 1902. 3:807-8.
- Ries. Onondaga (Corniferous) Limestone of Orange County. Geol. rep. 15 (for 1895) 1897. p.403. *Same*, Mus. rep. 49 (for 1895) 1898. 2:403.
- Ries. Upper Helderberg Limestones of Seneca County. Mus. bul. 44. 1901. p.318-19. *Same*, Mus. rep. 54 (for 1900) 1902. 3:318-19.
- Ries. Onondaga Limestone of Ulster County. Geol. rep. 17 (for 1897) 1899. p.456. *Same*, Mus. rep. 51 (for 1897) 1899. 2:456.
- — *revised*. Mus. bul. 44. 1901. p.821-22. *Same*, Mus. rep. 54 (for 1900) 1902. 3:821-22.
- Smock. Onondaga Limestone. Mus. bul. 3. 1888. p.22; 10. 1890. p.212-13.

^aFirst use of term.

Onondaga limestone (*continued*)

- — — revised by Merrill. Mus. bul. 15. 1895. p.428. *Same*, Mus. rep. 48 (for 1894) 1895. 1:428 (2d paging).
- — — revised by Merrill. Mus. bul. 19. 1898. p.202. *Same*, Mus. rep. 51 (for 1897) 1899. 1:202.
- Smock. Quarries. Mus. bul. 3. 1888. p.94-134; 10. 1890. p.238-55.
- — — revised by Merrill. Mus. bul. 15. 1895. p.432-47. *Same*, Mus. rep. 48 (for 1894) 1895. 1:432-47 (2d paging).
- Vanuxem. Onondaga Limestone. Geol. rep. 3d dist. (for 1839) 1840. p.378. Geol. N. Y. pt3. 1842. p.132-38.
- Vanuxem. Onondaga Limestone in Cayuga County. Geol. N. Y. pt3. 1842. p.288.
- Vanuxem. Onondaga Limestone in Herkimer County. Geol. N. Y. pt3. 1842. p.258.
- Vanuxem. Onondaga Limestone in Madison County. Geol. N. Y. pt3. 1842. p.274.
- Vanuxem. Onondaga Limestone in Oneida County. Geol. N. Y. pt3. 1842. p.263.
- Vanuxem. Onondaga Limestone in Onondaga County. Geol. N. Y. pt3. 1842. p.284.
- Vanuxem. Onondaga Limestone in Otsego County. Geol. N. Y. pt3. 1842. p.253.
- Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.132-33, 138.
- See also* Corniferous limestone; Gray sparry crinoidal limestone; Seneca limestones; Upper Helderberg group.
- Onondaga salt group (Salina).** Delafield. Onondaga Salt Group—gypsum Group of Seneca County. Ag. Soc. Trans. 10 (for 1850) 1851. p.439-44.
- Emmons. Onondaga Salt Group. Ag. N. Y. 1846. 1:153-66.
- Evans. Onondaga Salt Group of Madison County. Ag. Soc. Trans. 11 (for 1851) 1852. p.695-99.
- Geddes. Onondaga Salt Group of Onondaga County. Ag. Soc. Trans. 19 (for 1859) 1860. p.246-47.
- Hall. Onondaga Salt Group. Geol. N. Y. pt4. 1843. p.117-40.
- Hall. Onondaga Saliferous Group in Erie County. Geol. rep. 4th dist. (for 1840) 1841. p.150. Geol. N. Y. pt4. 1843. p.469-70.
- Hall. Onondaga Salt Group in Genesee County. Geol. rep. 4th dist. (for 1839) 1840. p.424. Geol. N. Y. pt4. 1843. p.464.
- Hall. Onondaga Salt Group in Monroe County. Geol. N. Y. pt4. 1843. p.422.
- Hall. Onondaga Salt Group in Niagara County. Geol. N. Y. pt4. 1843. p.440.
- Hall. Saliferous Group of Onondaga in Ontario County. Geol. rep. 4th dist. (for 1838) 1839. p.304-8. Geol. N. Y. pt4. 1843. p.453.
- Hall. Saliferous Group of Onondaga in Seneca County. Geol. rep. 4th dist. (for 1838) 1839. p.290-93. Geol. N. Y. pt4. 1843. p.449-50.
- Hall. Onondaga Salt Group in Wayne County. Geol. N. Y. pt4. 1843. p.414.
- Hall. Minerals. Geol. N. Y. pt4. 1843. p.134.
- Hall. Organic Remains. Geol. N. Y. pt4. 1843. p.137-39. Pal. N. Y. 1852. 2:339-50; 1859. 3:30-32.
- Lincklaen. Onondaga Salt Group. Mus. rep. 14 (for 1860) 1861. p.56-57.
- Mather. Onondaga Salt Group. Geol. rep. 1st dist. (for 1840) 1841. p.89-90. Geol. N. Y. pt1. 1843. p.353.

^aTerm first used by Hall and Vanuxem in 1839.

Onondaga salt group (*continued*)

- ^aVanuxem. Red Shale and Waterlimes of Herkimer and Oneida; Saliferous Group of Onondaga. Geol. rep. 3d dist. (for 1838) 1839. p.249-74.
- Vanuxem. Onondaga Salt Group. Geol. rep. 3d dist. (for 1839) 1840. p.375-76. Geol. N. Y. pt3. 1842. p.94-110.
- Vanuxem. Onondaga Salt Group in Cayuga County. Geol. N. Y. pt3. 1842. p.286-87.
- Vanuxem. Onondaga Salt Group in Herkimer County. Geol. N. Y. pt3. 1842. p.258.
- Vanuxem. Onondaga Salt Group in Madison County. Geol. N. Y. pt3. 1842. p.272.
- Vanuxem. Onondaga Salt Group in Oneida County. Geol. N. Y. pt3. 1842. p.263.
- Vanuxem. Onondaga Salt Group in Onondaga County. Geol. N. Y. pt3. 1842. p.278-83.
- Vanuxem. Onondaga Salt Group in Otsego County. Geol. N. Y. pt3. 1842. p.253.
- See also* Livonia salt shaft; Salina group; Waterlime.
- Ontaric (Siluric).** Clarke & Schuchert. Ontaric. Mus. mem. 3. 1900. p.10. *Same*, Mus. rep. 53 (for 1899) 1901. 2:10.
- Ontario.** Schuchert. List of the Fossils occurring in the Oriskany Sandstone of Maryland, New York and Ontario. Geol. rep. 8 (for 1888) 1889. p.50-54. *Same*, Mus. rep. 42 (for 1888) 1889. p.396-400.
- Ontario county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.82-83.
- Bishop. Natural Gas. Geol. rep. 17 (for 1897) 1899. p.14-20. *Same*, Mus. rep. 51 (for 1897) 1899. 2:14-20.
- Bishop. Oil and Gas. Geol. rep. 19 (for 1899) 1901. p.127. *Same*, Mus. rep. 53 (for 1899) 1901. 1:127.
- Clarke. Brief Outline of the Geological Succession in Ontario County, N. Y.; to accompany a map. Geol. rep. 4 (for 1884) 1885. p.9-22. map 36x33.5cm.
- Clarke. Annelid Teeth from the Lower Portion of the Hamilton Group and from the Naples Shales of Ontario County, N. Y. Geol. rep. 6 (for 1886) 1887. p.30-32. 1pl.
- Clarke. Geological Map showing Distribution of Portage Group. Geol. rep. 15 (for 1895) 1897. facing p.60. *Same*, Mus. rep. 49 (for 1895) 1898. v.2, facing p.60.
- Clarke. Agoniatite Limestone. Mus. bul. 49. 1901. p.120.
- Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.565-66. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:565-66.
- Ent. rep. 16 (for 1900) 1901. p.1015. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1015.
- Ent. rep. 17 (for 1901) 1902. p.789-90. (Mus. bul. 53).
- Ent. rep. 18 (for 1902). p.149. *In press*.
- Hall. Ontario County. Geol. rep. 4th dist. (for 1838) 1839. p.304-14. Geol. N. Y. pt4. 1843. p.453-58.
- Luther. Geologic Map of the Township of Naples. Geol. rep. 15 (for 1895) 1897. facing p.236. *Same*, Mus. rep. 49 (for 1895) 1898. v2. facing p.236.
- Ries. Brick Yards. Mus. bul. 12. 1895. p.203, 250. *Same*, Mus. rep. 48 (for 1894) 1895. 1:203, 250 (2d paging).
- Mus. bul. 35. 1900. p.719-20. *Same*, Mus. rep. 54 (for 1900) 1902. 2:719-20.

^aTerm first used by Hall and Vanuxem in 1839.

Ontario county (*continued*)

- Ries. Drain Tile Works. Mus. bul. 12. 1895. p.222. *Same*, Mus. rep. 48 (for 1894) 1895. 1:222 (2d paging).
 — — — Mus. bul. 35. 1900. p.771. *Same*, Mus. rep. 54 (for 1900) 1902. 2:771.
- Ries. Limestone Formations. Mus. bul. 44. 1901. p.807-8. *Same*, Mus. rep. 54 (for 1900) 1902. 3:807-8.
- Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.131; 10. 1890. p.253.
 — — — *revised* by Merrill. Mus. bul. 15. 1895. p.446. *Same*, Mus. rep. 48 (for 1894) 1895. 1:446 (2d paging).
See also Naples valley.
- Ontario division.** Denniston. Ontario Division in Orange County. Ag. Soc. Trans. 22 (for 1862) 1863. p.155-56.
 Emmons. Ontario Group. Geol. N. Y. pt2. 1842. p.100, 429.
 Emmons. Ontario Division. Ag. N. Y. 1846. 1:141-52.
 Hall. Ontario Division. Geol. N. Y. pt4. 1843. p.18. 34-117.
 Mather. Ontario Division. Geol. N. Y. pt1. 1843. p.353-65.
 Vanuxem. Ontario Division. Geol. N. Y. pt3. 1842. p.15, 67-94.
See also Ontario.
- Ontario, Lake.** Hall. Lake Ontario. Geol. N. Y. pt4. 1843. p.407-13; 664.
 Vanuxem. Lake Ontario. Geol. N. Y. pt3. 1842. p.240-41.
- Ontario valley.** Geddes. Geologic Features of the South Side of the Ontario Valley. Alb. Inst. Trans. 1829. 1:55-56.
- Oolite.** Beck. Oolite. Min. N. Y. 1842. p.231, 233.
- Oolitic limestone.** Mather. Oolitic Limestone. Geol. N. Y. pt1. 1843. p.415-17.
- Oolitic ore,** *see* Clinton ores.
- Oolitic system.** Conrad. Oolitic System. Pal. rep. (for 1840) 1841. p.44.
- Opal.** Whitlock. Opal. Mus. bul. 58. 1902. p.68-69.
- Orange county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.83-84; (for 1840) 1841. p.18.
 Beck. Magnetic Oxide of Iron. Min. N. Y. 1842. p.5-10.
 Clarke. Oriskany Fauna. Mus. mem. 3. 1900. p.75-77. *Same*, Mus. rep. 53 (for 1899) 1901. 2:75-77.
 Denniston. Agricultural Survey. Ag. Soc. Trans. 22 (for 1862) 1863. p.135-235. illus. maps.
 Map of Orange county (uncolored) 59x47.5cm.
 Map of patents in Orange county granted under the colonial government (uncolored) 43x32cm.
- Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.566. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:566.
 — — — Ent. rep. 16 (for 1900) 1901. p.1015-16. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1015-16.
 — — — Ent. rep. 17 (for 1901) 1902. p.790. (Mus. bul. 53).
 — — — Ent. rep. 18 (for 1902). p.159. *In press*.
- Horton. Geology. Geol. rep. 1st dist. (for 1838) 1839. p.135-75.
 Horton. Boulders. Geol. N. Y. pt1. 1843. p.185-87.
 Horton. List of Minerals. Geol. N. Y. pt1. 1843. p.577-79.
 Horton. On the Rocks of Orange County. Geol. N. Y. pt1. 1843. p.580.
 Map of the Mining District of Monroe. Min. N. Y. 1842. pl.6.
 Mather. Economic Geology. Geol. rep. 1st dist. (for 1838) 1839. p.114-34.
 Mather. Rocks Similar in Character to the Shawangunk Grit and Overlying Red Rocks. Geol. N. Y. pt1. 1843. p.362-65.
 Mather. Hudson River Group. Geol. N. Y. pt1. 1843. p.370-72.

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- Mather. White Metamorphic Limestone of Warwick. Geol. N. Y. pt1. 1843. p.466-76.
- Mather. Metamorphic Limestones. Geol. N. Y. pt1. 1843. p.476-80.
- Mather. Primary Rocks. Geol. N. Y. pt1. 1843. p.534-41.
- Mather. Magnetic Oxide of Iron. Geol. N. Y. pt1. 1843. p.565-75.
- Mather. Dip and Strike of Rocks. Geol. N. Y. pt1. 1843. p.617-18.
- Mather. Geological and Mineralogical Map of a Part of Orange County. Geol. N. Y. pt1. 1843. pl.41.
- Nevius. A Fossil Plant from Orange County. Mus. rep. 52 (for 1898) 1900. 1:r79-81.
- Prosser. Distribution of the Middle and Upper Devonian. Geol. rep. 17 (for 1897) 1899. p.304-11. *Same*, Mus. rep. 51 (for 1897) 1899. 2:304-11.
- Ries. Brickyards. Mus. bul. 12. 1895. p.182, 184, 212, 213-14, 244. *Same*, Mus. rep. 48 (for 1894) 1895. 1:182, 184, 212, 213-14, 244 (2d paging).
- — — Mus. bul. 35. 1900. p.696, 698, 731-33. *Same*, Mus. rep. 54 (for 1900) 1902. 2:696, 698, 731-33.
- Ries. Geology. Geol. rep. 15 (for 1895) 1897. p.18-19, 393-475. pl. (phot.) maps. *Same*, Mus. rep. 49 (for 1895) 1898. 2:18-19, 393-475. pl. (phot.) maps.
Geologic map (colored) 44x34cm.
Economic and sectional maps (uncolored).
Contains a bibliography.
- Ries. Limestones. Geol. rep. 17 (for 1897) 1899. p. 449-50. *Same*, Mus. rep. 51 (for 1897) 1899. 2:449-50.
- — — *revised*. Mus. bul. 44. 1901. p.808-10. *Same*, Mus. rep. 54 (for 1900) 1902. 3:808-10.
- Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.30-31, 78, 94-95; 10. 1890. p.231, 238.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.377, 378, 432-33. *Same*, Mus. rep. 48 (for 1894) 1895. 1:377, 378, 432-33 (2d paging).
- See also* Highlands of Hudson.
- Ordovician**, *see* Champlainic; Lower Silurian.
- Ores**. Mather. Ores found in the Champlain, Taconic and Metamorphic Rocks. Geol. N. Y. pt1. 1843. p.488-509.
See also Iron ores.
- Oriskanian**. Clarke & Schuchert. Oriskanian. Mus. mem. 3. 1900. p.11. *Same*, Mus. rep. 53 (for 1899) 1901. 2:11.
- Oriskany sandstone**. Clarke. Oriskany Sandstone in Ontario County. Geol. rep. 4 (for 1884) 1885. p.10.
- Clarke. Oriskany Fauna of Becraft Mountain, Columbia County, N. Y. Mus. mem. 3. 1900. 128p. 9pl. *Same*, Mus. rep. 53 (for 1899) 1901. v.2. 128p. 9pl.
- Clarke. Nature and Distribution of the Oriskany Fauna in New York. Mus. mem. 3. 1900. p.72-77. *Same*, Mus. rep. 53 (for 1899) 1901. 2:72-77.
- Clarke. The Original Oriskany Sandstone. Mus. mem. 3. 1900. p.78-79. *Same*, Mus. rep. 53 (for 1899) 1901. 2:78-79.
- Clarke. Oriskany Fauna. Mus. bul. 52. 1902. p.666-67.
- Clarke & Schuchert. Oriskany Beds. *See* New York series.
- Conrad. Oriskany Sandstone. Pal. rep. (for 1839) 1840. p.203; (for 1840) 1841. p.31.
- Darton. Oriskany Sandstone. Geol. rep. 13 (for 1893) 1894. p.210-11. *Same*, Mus. rep. 47 (for 1893) 1894. p.404-5.
- Darton. Oriskany Sandstone of Albany County. Geol. rep. 13 (for 1893) 1894. p.245. *Same*, Mus. rep. 47 (for 1893) 1894. p.439.

Oriskany sandstone (*continued*)

- Darton. Oriskany Sandstone of Ulster County. Geol. rep. 13 (for 1893) 1894. p.303. *Same*, Mus. rep. 47 (for 1893) 1894. p.497.
- Emmons. Oriskany Sandstone. Ag. N. Y. 1846. 1:168-71.
- Geddes. Oriskany Sandstone of Onondaga County. Ag. Soc. Trans. 19 (for 1859) 1860. p.250-51.
- Hall. Oriskany Sandstone. Geol. N. Y. pt4. 1843. p.146-50. Pal. N. Y. 1859. v.3. pt1. p.36, 39-41.
- Hall. Oriskany Sandstone of Erie County. Geol. rep. 4th dist. (for 1840) 1841. p.159. Geol. N. Y. pt4. 1843. p.472.
- ^aHall. Oriskany Sandstone of Ontario County. Geol. rep. 4th dist. (for 1838) 1839. p.308-9. Geol. N. Y. pt4. 1843. p.456.
- Hall. Organic Remains. Geol. N. Y. pt4. 1843. p.148-49. Pal. N. Y. 1859. v.3. pt1. p.99-125, 138-47, 406-80; v.3. pt2. plates.
- Hall & Clarke. Trilobites and other Crustacea. Pal. N. Y. 1888. v.7. 236p. 46pl.
- Lincklaen. Oriskany Sandstone; Fossils. Mus. rep. 14 (for 1860) 1861. p.59-60.
- Lincoln. Oriskany Sandstone. Geol. rep. 14 (for 1894) 1895. p.87, 89. *Same*, Mus. rep. 48 (for 1894) 1895. 2:87, 89.
- Luther. Oriskany Sandstone. Geol. rep. 16 (for 1896) 1899. p.213-14. *Same*, Mus. rep. 50 (for 1896) 1899. 2:213-14.
- Luther. Oriskany Sandstone in Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p.47. *Same*, Mus. rep. 47 (for 1893) 1894. p.241.
- Luther. Oriskany Sandstone of Onondaga County. Geol. rep. 15 (for 1895) 1897. p.274-75. *Same*, Mus. rep. 49 (for 1895) 1898. 2:274-75.
- Mather. Oriskany Sandstone. Geol. N. Y. pt1. 1843. p.342-43.
- Merrill. Oriskany Sandstone. Mus. bul. 19. 1898. p.159. *Same*, Mus. rep. 51 (for 1897) 1899. 1:159.
- Ries. Oriskany Sandstone of Orange County. Geol. rep. 15 (for 1895) 1897. p.402. *Same*, Mus. rep. 49 (for 1895) 1898. 2:402.
- Schuchert. List of the Fossils occurring in the Oriskany Sandstone of Maryland, New York and Ontario. Geol. rep. 8 (for 1888) 1889. p.50-54. *Same*, Mus. rep. 42 (for 1888) 1889. p.396-400.
- Smock. Oriskany Sandstone. Mus. bul. 10. 1890. p.221.
- — — revised by Merrill. Mus. bul. 15. 1895. p.387. *Same*, Mus. rep. 48 (for 1894) 1895. 1:387 (2d paging).
- — — revised by Merrill. Mus. bul. 19. 1898. p.191. *Same*, Mus. rep. 51 (for 1897) 1899. 1:191.
- ^aVanuxem. Oriskany Sandstone. Geol. rep. 3d dist. (for 1838) 1839. p.273; (for 1839) 1840. p.377. Geol. N. Y. pt3. 1842. p.123-27.
- Vanuxem. Oriskany Sandstone in Cayuga County. Geol. N. Y. pt3. 1842. p.287.
- Vanuxem. Oriskany Sandstone in Madison County. Geol. N. Y. pt3. 1842. p.274-75.
- Vanuxem. Oriskany Sandstone in Oneida County. Geol. N. Y. pt3. 1842. p.263.
- Vanuxem. Oriskany Sandstone in Onondaga County. Geol. N. Y. pt3. 1842. p.283.
- Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.124-27.
- See also* Esopus grit.
- Orleans county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.84.
- Boyd. Orleans County. Geol. rep. 4th dist. (for 1837) 1838. p.347-59. Geol. N. Y. pt4. 1843. p.433-39.

^a Term first used by Hall and Vanuxem in 1839.

Orleans county (*continued*)

Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.566. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:566.

— — — Ent. rep. 16 (for 1900) 1901. p.1016. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1016.

— — — Ent. rep. 17 (for 1901) 1902. p.790-91. (Mus. bul. 53).

Ries. Brick Yards. Mus. bul. 12. 1895. p.204. *Same*, Mus. rep. 48 (for 1894) 1895. 1:204. (2d paging).

— — — Mus. bul. 35. 1900. p.722. *Same*, Mus. rep. 54 (for 1900) 1902. 2:722.

Ries. Limestone Formations. Mus. bul. 44. 1901. p.810-11. *Same*, Mus. rep. 54 (for 1900) 1902. 3:810-11.

Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.59-70; 10. 1890. p.262-65.

— — — *revised* by Merrill. Mus. bul. 15. 1895. p.397-400. *Same*, Mus. rep. 48 (for 1894) 1895. 1:397-400 (2d paging).

Ornithology, *see* Birds.

Orpiment. Beck. Orpiment. Min. N. Y. 1842. p.439-40.

Mather. Orpiment and Arseniate of Iron. Geol. N. Y. pt1. 1843. p.119.

Whitlock. Orpiment. Mus. bul. 58. 1902. p.51.

Orthoceratidae, *see* Cephalopoda (paleozoic).

Orthoclase. Beck. Feldspar. Min. N. Y. 1842. p.334-40.

Hunt. Orthoclase. Mus. rep. 21 (for 1867) 1871. p.81.

Merrill. Orthoclase. Mus. bul. 19. 1898. p.121. *Same*, Mus. rep. 51 (for 1897) 1899. 1:121.

Whitlock. Orthoclase. Mus. bul. 58. 1902. p.88.

Orthoptera. Additions to Collection. Ent. rep. 4, p.208; 5, p.326; 6, p.189; 7, p.384; 8, p.300; 9, p.464; 10, p.512, 519; 11, p.288; 12, p.363; 13, p.375; 14, p.262; 15, p.619; 16, p.1045; 17, p.824; 18, p.177.
For dates of reports, *see* List of publications, p.264.

Lintner. Species Treated. Ent. rep. 2 (for 1882 and 1883) 1885. p.187-98.

— — — Ent. rep. 4 (for 1887) 1888. p.158-62. *Same*, Mus. rep. 41 (for 1887) 1888. p.278-82.

— — — Ent. rep. 6 (for 1889) 1890. p.149-53. *Same*, Mus. rep. 43 (for 1889) 1890. p.149-53.

— — — Ent. rep. 9 (for 1892) 1893. p.330-34. *Same*, Mus. rep. 46 (for 1892) 1893. p.330-34.

— — — Ent. rep. 10 (for 1894) 1895. p.439-45. *Same*, Mus. rep. 48 (for 1894) 1895. 1:439-45 (1st paging).

Species

The following list of species includes only the more important accounts by Lintner, in Ent. rep. 10; by Felt in Ag. Soc. Trans. 59, Forest, Fish and Game com. rep. 7. For dates of reports, *see* p.264, 271-72.

Melanoplus femur-rubrum. Ent. rep. 10, p.439-45. *Same*, Mus. rep. 48, 1:439-45 (1st paging).

Oecanthus pini. Forest, Fish and Game Com. rep. 7. *In press*.

Periplaneta orientalis. Ag. Soc. Trans. 59, p.299.

Phyllodromia germanica. Ag. Soc. Trans. 59, p.299.

Ostracoda, *see* Crustacea (paleozoic).

Oswegan. Clarke & Schuchert. Oswegan. Mus. mem. 3. 1900. p.10. *Same*, Mus. rep. 53 (for 1899) 1901. 2:10.

Oswegatchie series. Cushing. Grenville (Oswegatchie) Series. Geol. rep. 16 (for 1896) 1899. p.10-11. *Same*, Mus. rep. 50 (for 1896) 1899. 2:10-11.

Smyth. Oswegatchie Series. Geol. rep. 13 (for 1893) 1894. p.496. *Same*, Mus. rep. 47 (for 1893) 1894. p.690.

Oswego. Smock. Stone Construction in. Mus. bul. 10. 1890. p.341-42.

- Oswego county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.84.
 Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.566-67.
 (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:566-67.
 ——— Ent. rep. 16 (for 1900) 1901. p.1016-17. (Mus. bul. 36). *Same*,
 Mus. rep. 54 (for 1900) 1902. 2:1016-17.
 ——— Ent. rep. 17 (for 1901) 1902. p.791. (Mus. bul. 53).
 Orton. Petroleum and Natural Gas. Mus. bul. 30. 1899. p.426-56. *Same*,
 Mus. rep. 53 (for 1899) 1901. 1:426-56.
 Ries. Brick Yards. Mus. bul. 12. 1895. p.202, 250. *Same*, Mus. rep. 48
 (for 1894) 1895. 1:202, 250 (2d paging).
 ——— Mus. bul. 35. 1900. p.718. *Same*, Mus. rep. 54 (for 1900) 1902.
 2:718.
 Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.57-59; 10. 1890.
 p.260-61.
 ——— *revised* by Merrill. Mus. bul. 15. 1895. p.396-97. *Same*, Mus.
 rep. 48 (for 1894) 1895. 1:396-97 (2d paging).
 Vanuxem. Oswego County. Geol. rep. 3d dist. (for 1837) 1838. p.280-82.
 Geol. N. Y. pt3. 1842. p.270-71.
- Oswego sandstone (Medina).** ^aVanuxem. Red Sandstone of Oswego.
 Geol. rep. 3d dist. (for 1838) 1839. p.245-46.
See also Medina sandstone; Oswegan.
- Otisco lake.** Geddes. Otisco Lake. Ag. Soc. Trans. 19 (for 1859) 1860.
 p.260.
 Vanuxem. Otisco Lake. Geol. N. Y. pt3. 1842. p.238.
- Otsego county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.84.
 Clarke. Agoniatite Limestone. Mus. bul. 49. 1901. p.121-23.
 Dickinson. Bluestone Quarries. Mus. bul. 61. *In press*.
 Felt. Entomological Reports from. Ent. rep. 16 (for 1900) 1901. p.1017.
 (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1017.
 ——— Ent. rep. 17 (for 1901) 1902. p.791. (Mus. bul. 53).
 Prosser. Hamilton, Sherburne and Ithaca Formations. Geol. rep. 15
 (for 1895) 1897. p.87-222. *Same*, Mus. rep. 49 (for 1895) 1898. 2:87-222.
 Prosser. Geologic Map of Part of. Geol. rep. 15 (for 1895) 1897. facing
 p.87. *Same*, Mus. rep. 49 (for 1895) 1898. v.2, facing p.87.
 Prosser. Chemung Formation. Geol. rep. 17 (for 1897) 1899. p.68-94,
 141-50. *Same*, Mus. rep. 51 (for 1897) 1899. 2:68-94, 141-50.
 Ries. Brick Yards. Mus. bul. 12. 1895. p.212, 250. *Same*, Mus. rep. 48
 (for 1894) 1895. 1:212, 250 (2d paging).
 ——— Mus. bul. 35. 1900. p.731. *Same*, Mus. rep. 54 (for 1900) 1902.
 2:731.
 Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.80, 121-22; 10.
 1890. p.250, 272.
 ——— *revised* by Merrill. Mus. bul. 15. 1895. p.406, 443. *Same*, Mus.
 rep. 48 (for 1894) 1895. 1:406, 443 (2d paging).
 Vanuxem. Otsego County. Geol. N. Y. pt3. 1842. p.253-55.
- Otsego lake.** Vanuxem. Otsego Lake. Geol. N. Y. pt3. 1842. p.238.
- Owasco lake.** Vanuxem. Owasco Lake. Geol. N. Y. pt3. 1842. p.239.
- Oxygen.** Beck. Oxygen Gas. Min. rep. (for 1838) 1839. p.14. Min. N. Y.
 1842. p.174.
- Oyster Bay quadrangle.** Woodworth. Oyster Bay Quadrangle. Mus. bul.
 48. 1901. p.618. *Same*, Mus. rep. 54 (for 1900) 1902. 4:618.
- Palaeasteridae,** *see* Echinoderma (paleozoic).
- Paleobotany.** Clarke. Type Specimens of Fossil Plants in New York
 State Museum. Mus. bul. 65. *In press*.

^aFirst use of term.

Paleobotany (*continued*)

- Grabau. Fossil Plants of Niagara Region. Mus. bul. 45. 1901. p.130-32.
Same, Mus. rep. 54 (for 1900) 1902. 4:130-32.
- Hall. Plantae of Lower Silurian. Pal. N. Y. 1847. v.1 (various page references, *see* Table, p.322).
- Hall. Fossil Plants of the Medina Sandstone. Pal. N. Y. 1852. 2:4-7.
- Hall. Fossil Plants of Clinton Group. Pal. N. Y. 1852. 2:18-26.
- Hall. Fossil Plants. Pal. N. Y. (various references under names of rock formations).
- Hall. Flora of the Devonian Period. Mus. rep. 16 (for 1862) 1863. p.92-117. illus. 4pl.
- Hall. Fossil Trees in Schoharie County. Mus. rep. 24 (for 1870) 1872. p.15-16.
- Hall & Whitfield. Remarks on Some Peculiar Impressions in Sandstone of the Chemung Group, New York. Mus. rep. 24 (for 1870) 1872. p.201-4.
- Hollick. Field Work during 1901 in the Cretaceous Beds of Long Island. Geol. rep. 21 (for 1901). *In press*.
- Loomis. Siluric Fungi from Western New York. Mus. bul. 39. 1900. p.223-26. pl.16. *Same*, Mus. rep. 54 (for 1900) 1902. 3:223-26. pl.16.
- Nevius. A Fossil Plant from Orange County. Mus. rep. 52 (for 1898) 1900. 1:79-81. pl. (phot.)
- White. Description of a Fossil Alga from the Chemung of New York with Remarks on the Genus *Haliserites*. Mus. bul. 52. 1902. p.593-605.
See also Fucoidal layers; Fucoides.
- Paleontologic collection of museum.** Additions. Mus. rep. 2, p.68-70; 3 *rev. ed.* p.32, 39-41; 4, p.80-81; 6, p.12-13, 28-30; 7, p.57-65; 8, p.27-31; 9, p.45-48; 10, p.29-37; 11, p.43; 12, p.98-101; 13, p.17-18; 18, p.17-52; 21, p.15-17, 20-21; 22, p.16; 25, p.21-22; 26, p.19; 27, p.30-33; 28, p.24; 29, p.22-23; 30, p.15-17; 31, p.13; 32, p.12; 34, p.16-19; 35, p.15; 36, p.18-19; 37, p.28; 38, p.17-18; 40, p.26-28; 41, p.30-32; 42, p.41-42; 43, p.14-15, 34-36; 44, p.62-64; 45, p.338-44, 347-69; 46, p.196-99; 47, p.18; 52. 1:21; 53. 1:679-83; 54. 1:25-31 (apx. 1). Geol. rep. 10, p.32-34; 11, p.22-28, 33-53; 12, p.50-53. Pal. rep. (for 1899) p.679-83; (for 1900) p.25-31; (for 1901) p.461-68.
 For dates of rep'ts, *see* List of publications, p.241.
- Bagg. Report of Work on the Collection of Mesozoic and Cenozoic Fossils in Geological Hall. Mus. rep. 52 (for 1898) 1900. 1:32-78.
- Catalogue of Fossils collected by Ezekiel Jewett. Mus. rep. 10 (for 1856) 1857. p.29-37.
- Catalogue of Fossils from H. C. Grosvenor. Mus. rep. 11 (for 1857) 1858. p.43.
- Catalogue of Geological Specimens from England given by Sir Roderick Murchison. Mus. rep. 11 (for 1857) 1858. p.11-36.
- Catalogue of Collection of European Fossils presented to New York State Museum by Sir Roderick Murchison in 1857. Mus. rep. 52 (for 1898) 1900. 1:47-71.
- Catalogue of Translucent Sections of Rocks and Fossils in Museum. Mus. rep. 37 (for 1883) 1884. p.33-43.
- Clarke. List of the Type Specimens of Devonian Crustacea described in Palaeontology of New York. v.7. in the New York State Museum. Geol. rep. 8 (for 1888) 1889. p.24-27. *Same*, Mus. rep. 42 (for 1888) 1889. p.370-73.
- Clarke. Report as Assistant Paleontologist (on field work). Geol. r.p. 10 (for 1890) 1891. p.27-31. *Same*, Mus. rep. 44 (for 1890) 1892. p.57-61.
- Clarke. Catalogue of the Collection of Geological and Palaeontological Specimens donated by the Albany Institute to the State Museum. Geol. rep. 11 (for 1891) 1892. p.33-53. *Same*, Mus. rep. 45 (for 1891) 1892. p.347-69.

Paleontologic collection of museum (continued)

- Clarke. List of the Original and Illustrated Specimens in the Palaeontological Collections. Pt1, Crustacea. Geol. rep. 11 (for 1891) 1892. p.57-121. *Same*, Mus. rep. 45 (for 1891) 1892. p.373-437.
- Clarke. List of the Original and Illustrated Specimens in the Palaeontological Collections. Pt2, Annelida and Cephalopoda. Geol. rep. 12 (for 1892) 1893. p.55-104. *Same*, Mus. rep. 46 (for 1892) 1893. p.201-50.
- Clarke. General Record of Localities of American Paleozoic Fossils belonging to State Museum. Pal. rep. (for 1899) 1900. p.666-68, 683-813; (for 1900) 1901. p.31-81; (for 1901) 1902. p.468-516. *Same*, Mus. rep. 53 (for 1899) 1901. 1:683-813; 54 (for 1900) 1902. 1:31-81 (apx. 1).
- Clarke. Type Specimens of Paleozoic Fossils in the New York State Museum. Mus. bul. 65. *In press*.
- Crinoidea from the Tentaculite Limestone, arranged in table cases. Mus. rep. 35 (for 1881) 1884. p.67.
- De Rham Collection. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.39-41.
- Distribution of Duplicate Fossils and Minerals. Mus. rep. 35 (for 1881) 1884. p.19-27.
- Fossils from the Eocene Tertiary of Paris, presented by W. C. Johnson. Mus. rep. 12 (for 1858) 1859. p.98.
- Fossils from P. P. Carpenter. Mus. rep. 12 (for 1858) 1859. p.99-100.
- Fossils deposited in the State Cabinet by Ledyard Lincklaen. Mus. rep. 12 (for 1858) 1859. p.101.
- Gebhard Collection. Mus. rep. 6 (for 1852) 1853. p.12-13, 29-30; 25 (for 1871) 1873. p.7, 27-33; 26 (for 1872) 1874. p.7.
- Hall. Catalogue of Specimens. Mus. rep. 1 (for 1847) 1848. 15p.
- Hall. Memorandum as to the Additions made since April 11, 1848. Mus. rep. 2 (for 1848) 1849. p.68-70.
- Hall. Catalogue of Specimens of the Rocks and Fossils in the Gray Sandstone, Medina Sandstone, Clinton Group, Niagara Group, Onondaga Salt Group and a Part of the Water-lime Group. Mus. rep. 4 (for 1850) 1851. p.117-42.
- Hall. Record of Locality Numbers marking the Specimens collected for the Illustration of the Palaeontology of New York. Geol. rep. 8 (for 1888) 1889. p.104-50. *Same*, Mus. rep. 42 (for 1888) 1889. p.450-96.
- Geol. rep. 9 (for 1889) 1890. p.61-72. *Same*, Mus. rep. 43 (for 1889) 1890. p.263-74.
- Hall. Record of Localities of Extra Limal Geographical and Palaeontological Collections of the New York State Museum. Geol. rep. 11 (for 1891) 1892. p.122-23. *Same*, Mus. rep. 45 (for 1891) 1892. p.438-39.
- Hall. Collections of Fossils made for the Paleontology of New York previous to 1883. Mus. rep. 46 (for 1892) 1893. p.62-74.
- Hall. Additions to the Museum Collections in Geology and Palaeontology made in Connection with Work on the Geological Map. Mus. rep. 46 (for 1892) 1893. p.75-81.
- Hall, J. W. Machinery and Methods of cutting Specimens of Rocks and Fossils. Mus. rep. 35 (for 1881) 1884. p.121-24. 2pl.
- Kellogg Collection of Crinoidea. Mus. rep. 21 (for 1867) 1871. p.9, 13.
- List of Genera and Species of Brachiopoda, of which Sections have been prepared for the Microscope. Mus. rep. 36 (for 1882) 1883. p.26.
- List of Niagara Fossils from Waldron, Indiana, arranged in table cases, 1882. Mus. rep. 36 (for 1882) 1883. p.21-25.
- List of the Species and Specimens of Cephalopoda from the Schoharie Grit, Upper Helderberg, Marcellus Shale, Hamilton, Tully Limestone, Genesee Slate, Portage, Chemung and Waverly Groups, as arranged in the cases of the State Museum. Mus. rep. 35 (for 1881) 1884. p.33-66.

Paleontologic collection of museum (*continued*)

List of the Species in each of Ten Duplicate Collections of Fossils prepared for High Schools and Academies. Mus. rep. 35 (for 1881) 1884. p.29-32.

Marsh Collection. Mus. rep. 7 (for 1853) 1854. p.60-63.

Memorandum of Drawers and Boxes of Fossils, principally of Duplicate Specimens. Mus. rep. 4 (for 1850) 1851. p.143-46.

Mesozoic and Cenozoic Fossils. Mus. rep. 52 (for 1898) 1900. 1:r40-46.

Pickett. Collection of Fossils. Mus. rep. 21 (for 1867) 1871. p.10, 20-21.

Wadsworth Gallery of Casts of Fossil Animals. Mus. rep. 18 (for 1864) 1865. p.17-52. illus.

Paleontology. Appointment of Paleontologist in Connection with Geological Survey. Assembly doc. 1837, no.161, p.9; 1838, no.200, p.1-2.

Bernard. Principles of Palaeontology. Geol. rep. 14 (for 1894) 1895. p.13-15, 127-215. *Same*, Mus. rep. 48 (for 1894) 1895. 2:13-15, 127-215.

Callaway. The Geological Evidence of the Origin of Species by Evolution. Alb. Inst. Trans. 1876. 8:207-14.

Clarke. Reports as Assistant Paleontologist. Geol. rep. 10-12 (for 1890-92) 1891-93. Mus. rep. 44-47 (for 1890-93) 1892-94.

For page references, *see* List of publications, p.258-59.

Clarke. List of Publications relating to the Geology and Palaeontology of New York, 1876-93. Geol. rep. 13 (for 1893) 1894. p.559-97. *Same*, Mus. rep. 47 (for 1893) 1894. p.753-91.

Clarke. Paleontology. Mus. handbook 13. 1899. 8p.

Brief outline of State Museum work in paleontology.

Clarke. Guide to Excursions in the Fossiliferous Rocks of New York State. University handbook 15. 1899. 120p.

Clarke. Appointment and Work as State Paleontologist. Pal. rep. (for 1899) 1900. p.661-62. *Same*, Mus. rep. 53 (for 1899) 1901. 1:661-62.

Clarke. Reports as Paleontologist. Pal. rep. (for 1899-1901) 1900-2.

For page references, *see* List of publications, p.262.

Clarke. Relation of New York State Paleontology to the Schools and Colleges. Regents rep. 113 (for 1899) 1901. p.359-64.

Clarke. Catalogue of Type Specimens of Paleozoic Fossils in the New York State Museum. Mus. bul. 65. *In press*.

Conrad. Importance of a Knowledge of Organic Remains. Geol. rep. 3d dist. (for 1836) 1837. p.184-86 (ed. 2, p.186-88).

Conrad. Reports on the Palaeontological Department of the Survey. Assembly doc. 1838, no.200, p.107-19; 1839, no.275, p.57-66; 1840, no.50, p.199-207; 1841, no.150, p.25-57.

First Discovery (probably) of Fossil Bones and Teeth in the State of New-York. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.160.

— Correction. Mus. rep. 6 (for 1852) 1853. p.35.

Hall. Geologic and Palaeontologic Knowledge at Beginning of Natural History Survey. Geol. N. Y. pt4. 1843. p.4-11.

Hall. Contributions to the Palaeontology of New York. Mus. rep. 12 (for 1858) 1859. p.7-96, 100; 13 (for 1859) 1860. p.53-125. illus.; 14 (for 1860) 1861. p.87-109; 15 (for 1861) 1862. p.27-197. illus. 11pl.; 16 (for 1862) 1863. p.17-226. illus. 12pl.; 17 (for 1863) 1864. p.50-60; 20 (for 1866) 1867. p.169-401.

For contents, *see* Author index, p.285-86.

Hall. Corrected List of the Fossils described in the Report of the 4th Geological district of New York. Mus. rep. 12 (for 1858) 1859. p.87-92.

Hall. Reports as Geologist and Paleontologist. Geol. rep. 1-17 (for 1881-97) 1884-99. Mus. rep. 38-51 (for 1884-97) 1885-99.

For page references, *see* List of publications, p.257.

Geol. rep. 18, edited by J. M. Clarke, acting state geologist and paleontologist.

Paleontology (*continued*)

Merrill. Palaeontology. Mus. bul. 19. 1898. p.129-32. *Same*, Mus. rep. 41 (for 1897) 1899. 1:129-32.

Merrill. Fossils. Mus. bul. 19. 1898. p.239-40. *Same*, Mus. rep. 51 (for 1897) 1899. 1:239-40.

References to Various Essays and Writings on the Natural History of New York. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.159; 5 (for 1851) 1852. p.56.

Vanuxem. Importance of Fossils in determining Position of Rocks. Geol. N. Y. pt3. 1842. p.26-27.

Williams. Palaeontological Evidences as bearing upon the Theory of Evolution. Regents rep. 95 (for 1881) 1882. p.319-27.

See also Acephala; Annelida; Anthozoa; Brachiopoda; Bryozoa; Cephalopoda; Coelenterata; Conularida; Corals; Crustacea; Echinoderma; Fishes; Gastropoda; Hydrozoa; Lamellibranchiata; Protozoa; Pteropoda; Spongiae; Tracheata; Vermes; Zoophyta; *also names of rock formations and Index to genera and species of fossils*, p.527.

Paleontology of New York (publication). Act to regulate the State Museum of Natural History, and the Publication of the Palaeontology of the State; Contracts relating to Publication of Palaeontology. Mus. rep. 37 (for 1883) 1884. p.11-18.

Beecher. Synoptical Table of the Genera and Species described in v.6. Mus. rep. 41 (for 1887) 1888. p.363-75.

Beecher. Statement on the Condition of the Work on the Brachiopoda, Palaeontology of New York, v.8. Mus. rep. 41 (for 1887) 1888. p.383-84.

Clarke. List of Preparations of Spirals, Loops and Hinge-plates, v.8. Geol. rep. 11 (for 1891) 1892. p.14-15. *Same*, Mus. rep. 45 (for 1891) 1892. p.330-31.

Hall. Palaeontology of New York. 1847-94. 8v. illus. pl. sq. Q.

Contents:

- v. 1 Organic Remains of the Lower Division of the New York System.
- v. 2 Organic Remains of Lower Middle Division of the New York System.
- v. 3 Organic Remains of the Lower Helderberg Group and the Oriskany Sandstone.
- v. 4 Fossil Brachiopoda of the Upper Helderberg, Hamilton, Portage and Chemung Groups.
- v. 5 pt1 Lamellibranchiata 1. Monomyaria of the Upper Helderberg, Hamilton and Chemung Groups.
- — Lamellibranchiata 2. Dimyaria of the Upper Helderberg, Hamilton, Portage and Chemung Groups.
- pt2 Gasteropoda Pteropoda and Cephalopoda of the Upper Helderberg, Hamilton, Portage and Chemung Groups.
- v. 6 Corals and Bryozoa of the Lower and Upper Helderberg and Hamilton Groups.
- v. 7 Trilobites and other Crustacea of the Oriskany, Upper Helderberg, Hamilton, Portage, Chemung and Catskill Groups. Cont. supplement to v.5, pt2. Pteropoda, Cephalopoda and Annelida.
- v. 8 pt1 Introduction to the Study of the Genera of the Paleozoic Brachiopoda.
- pt2 Paleozoic Brachiopoda.

Hall. Record of Locality Numbers marking the Specimens collected for the Illustration of the Palaeontology of New York. Geol. rep. 8 (for 1888) 1889. p.104-50. *Same*, Mus. rep. 42 (for 1888) 1889. p.450-96.

— — *continued*. Geol. rep. 9 (for 1889) 1890. p.61-72. *Same*, Mus. rep. 43 (for 1889) 1890. p.263-74.

Hall. Collections of Fossils made for the Palaeontology of New York previous to 1883. Mus. rep. 46 (for 1892) 1893. p. 62-74.

Hall. Descriptions of Palaeozoic Fossils, chiefly from those constituting the Third Volume of the Palaeontology of New York. Mus. rep. 10 (for 1856) 1857. p.39-180.

Hall. Catalogue of the Species of Fossils described in v. 1, 2 and 3 of the Palaeontology of New York, with corrections in nomenclature. Mus. rep. 12 (for 1858) 1859. p.63-87.

Paleontology of New York (*continued*)

- Hall. Catalogue of the Species of Fossils described in the third volume of the Palaeontology of New York. Mus. rep. 12 (for 1858) 1859. p.93-96.
- Hall. Fossils described in v.3. Mus. rep. 13 (for 1859) 1860. p.126-28.
- Hall. Notice of v.4 of the Palaeontology of New York. Mus. rep. 20 (for 1866) 1867. p.145-68. illus.
- Hall. Preliminary Notice of the Lamellibranchiate Shells of the Upper Helderberg, Hamilton and Chemung Groups (preparatory for the Palaeontology of New York). Mus. rep. 35 (for 1881) 1884. p.215-406g.
- Hall. Plates and Explanations of Cephalopoda, supplementary to Palaeontology of New York, v.5, pt2. Geol. rep. 5 (for 1885) 1886. pl.1-14 (117-29).
- Hall. Plates and Explanations, published in Advance of Palaeontology of New York, v.6. Geol. rep. 5 (for 1885) 1886. pl.25, 27, 29-32, 40-41, 44-45, 48, 50-51, 53.
- Hall. Synopsis of Contents of v.7. Mus. rep. 41 (for 1887) 1888. p.378-80.
- Hall. Report of Progress of v. 8. Mus. rep. 41 (for 1887) 1888. p.381-82.
- Hall. Report on v. 6 and 7. Geol. rep. 8 (for 1888) 1889. p.5-15. *Same*, Mus. rep. 42 (for 1888) 1889. p.351-61.
- Hall. Synoptical Table to the Genera and Species of Devonian Crustacea described in v.7. Geol. rep. 8 (for 1888) 1889. p.16-23. *Same*, Mus. rep. 42 (for 1888) 1889. p.362-67.
- Hall. Genera and Species, not Devonian, described or illustrated in v.7. Geol. rep. 8 (for 1888) 1889. p.22. *Same*, Mus. rep. 42 (for 1888) 1889. p.368.
- Hall. Palaeontology of New York, v.8; Historical Statement. Geol. rep. 8 (for 1888) 1889. p.27-42. *Same*, Mus. rep. 42 (for 1888) 1889. p.373-88.
- Hall. List of Preparations for v.8, showing Internal Apparatus, Crura, Spirals, Loops, Septa, etc. Geol. rep. 8 (for 1888) 1889. p.47-48. *Same*, Mus. rep. 42 (for 1888) 1889. p.393-94.
- Hall. List of Plates of Brachiopoda for Palaeontology of New York, v.8, showing the Condition of the Work. Geol. rep. 8 (for 1888) 1889. p.48-49. *Same*, Mus. rep. 42 (for 1888) 1889. p.394-95.
- Hall. List of the Plates, the Number of Drawings, the Names of the Draughtsmen and Lithographers for the Palaeontology of New York, v.5, pt 1 and 2, and v.7 and 8. Geol. rep. 8 (for 1888) 1889. p.99-103. *Same*, Mus. rep. 42 (for 1888) 1889. p.445-49.
- Hall. Report on Publication of v.6. Mus. rep. 42 (for 1888) 1889. p.361-78.
- Hall. Reports on v.8. Geol. rep. 9 (for 1889) 1890. p.7-16; 10 (for 1890) 1891. p.7-25; 11 (for 1891) 1892. p.12-21. *Same*, Mus. rep. 43 (for 1889) 1890. p.209-18; 44 (for 1890) 1892. p.37-55; 45 (for 1891) 1892. p.328-37.
- Hall. List of the Genera of the Palaeozoic Brachiopoda, v.8. Geol. rep. 11 (for 1891) 1892. p.15-21. *Same*, Mus. rep. 45 (for 1891) 1892. p.331-37.
- Hall. Announcement of Publication and Explanations of v.8. Geol. rep. 12 (for 1892) 1893. p.14-22. *Same*, Mus. rep. 46 (for 1892) 1893. p.160-68.
- Hall. Report of Progress, v.8, pt2. Geol. rep. 12 (for 1892) 1893. p.23-25. Mus. rep. 46 (for 1892) 1893. p.169-71; 47 (for 1893) 1894. p.15-16.
- Hall. Report of Progress and Synopsis of Contents, v.8, pt2. Geol. rep. 13 (for 1893) 1894. p. 601-8. Mus. rep. 47 (for 1893) 1894. p.795-802; 48 (for 1894) 1895. 1:44.
- Hall & Clarke. Descriptions of New Species of Brachiopoda figured in v.8, pt2. Geol. rep. 13 (for 1893) 1894. p.647-57. *Same*, Mus. rep. 47 (for 1893) 1894. p.841-51.

Paleontology of New York (*continued*)

Hall & Clarke. New Species of Brachiopoda described in Palaeontology of New York, v.8, pt.1 and 2. Geol. rep. 14 (for 1894) 1895. p.16-18, 323-72. 14pl. *Same*, Mus. rep. 48 (for 1894) 1895. 2:16-18, 323-72. 14pl.

Hall. Preface to v.8, pt.2. Geol. rep. 14 (for 1894) 1895. p.21-29. *Same*, Mus. rep. 48 (for 1894) 1895. 2:21-28.

Materials belonging to the State used in the Publication of the Palaeontology of New York. Mus. rep. 5 (for 1851) 1852. p.65-66; 6 (for 1852) 1853. p.29-32; 7 (for 1853) 1854. p.127; 8 (for 1854) 1855. p.43; 9 (for 1855) 1856. p.61-63.

Simpson. Glossary and Explanations of Specific Names of Bryozoa and Corals described in v.6, Palaeontology of New York and other Reports. Geol. rep. 13 (for 1893) 1894. p.729-47. *Same*, Mus. rep. 47 (for 1893) 1894. p.923-41.

See also Natural History Survey of the State of New York.

Paleozoic barriers. Ulrich & Schuchert. Paleozoic Seas and Barriers in Eastern North America. Mus. bul. 52. 1902. p.633-63.

Paleozoic series. Merrill. Palaeozoic. Mus. bul. 19. 1898. p.141-42. *Same*, Mus. rep. 51 (for 1897) 1899. 1:141-42.

See also New York Series; *also names of subdivisions, also classes of fossils.*

Palmer worm. Felt. Palmer Worm. Ent. rep. 16 (for 1900) 1901. p.962-66. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:962-66.

Fitch. Palmer worm. Ag. Soc. Trans. 15 (for 1855) 1856. p.453-65 (rep. 2. sep. ed. p.221-33).

Paper-making. Ries. Paper-making. Mus. bul. 44. 1901. p.652-53, 671. *Same*, Mus. rep. 54 (for 1900) 1902. 3:652-53, 671.

Pargasite. Mather. Pargasite, Blende and Rutile of Amity. Geol. N. Y. pt.1. 1843. p.513.

Paving brick. Merrill. Directory of Manufacturers. Mus. bul. 15. 1895. p.502-18. *Same*, Mus. rep. 48 (for 1894) 1895. 1:502-18 (2d paging).

Ries. Paving Brick. Mus. bul. 12. 1895. p.151-54. *Same*, Mus. rep. 48 (for 1894) 1895. 1:151-54 (2d paging).

— — *revised.* Geol. rep. 15 (for 1895) 1897. p.682-89. *Same*, Mus. rep. 49 (for 1895) 1898. 2:682-89.

— — *revised.* Mus. bul. 35. 1900. p.743-57, 900-3. *Same*, Mus. rep. 54 (for 1900) 1902. 2:743-57, 900-3.

Ries. Directory of Manufacturers. Mus. bul. 35. 1900. p.913-25. *Same*, Mus. rep. 54 (for 1900) 1902. 2:913-25.

Paxillus. Peck. New York Species of Paxillus. Mus. bul. 2. 1887. p.29-33.

Peachtree borer. Fitch. Peach Tree Borer. Ag. Soc. Trans. 14 (for 1854) 1855. p.812-21 (rep. 3. sep. ed. p.108-17).

Lintner. Peach Tree Borer. Ent. rep. 8 (for 1891) 1893. p.181-86. *Same*, Mus. rep. 45 (for 1891) 1892. p.181-86.

Pear blight beetle. Lintner. Pear Blight Beetle. Ent. rep. 7 (for 1890) 1891. p.348-51. *Same*, Mus. rep. 44 (for 1890) 1892. p.348-51.

Pear leaf blister mite. Lintner. Pear-Leaf Blister-mite. Ent. rep. 10 (for 1894) 1895. p.453-60. *Same*, Mus. rep. 48 (for 1894) 1895. 1:453-60.

Pear midge. Lintner. Pear Midge. Ent. rep. 8 (for 1891) 1893. p.140-51. *Same*, Mus. rep. 45 (for 1891) 1892. p.140-51.

Pear psylla. Lintner. Pear Psylla. Ent. rep. 9 (for 1892) 1893. p.317-29. *Same*, Mus. rep. 46 (for 1892) 1893. p.317-29.

Peat. Beck. Peat. Min. rep. (for 1838) 1839. p.16. Min. N. Y. 1842. p.95-96, 192-94.

Carr. Peat. Geol. rep. 3d dist. (for 1839) 1840. p.385-86.

Emmons. Peat. Geol. rep. 2d dist. (for 1838) 1839. p.216-20. Geol. N. Y. pt.2. 1842. p.323. Ag. N. Y. 1846. 1:204-6.

Peat (*continued*)

- Emmons. Peat of Warren County. Geol. N. Y. pt2. 1842. p.185-86.
- Horsford. Peat of Cattaraugus County. Geol. rep. 4th dist. (for 1839) 1840. p.460-61.
- Horton. Peat in Orange County. Geol. rep. 1st dist. (for 1838) 1839. p.159.
- Marshall. Report on a Deposit of Marl and Peat in New Baltimore. Mus. rep. 45 (for 1891) 1892. p.46-52.
- Mather. Peat. Geol. rep. 1st dist. (for 1836) 1837. p.70-71 (ed. 2, p.72-73); (for 1838) 1839. p.74-76; (for 1839) 1840. p.215-24; (for 1840) 1841. p.69-71. Geol. N. Y. pt1. 1843. p.12-13.
- Mather. Peat in Queens, Kings and Richmond Counties. Geol. rep. 1st dist. (for 1837) 1838. p.122-23.
- Mather. Peat in Columbia and Dutchess Counties. Geol. rep. 1st dist. (for 1837) 1838. p.150-55.
- Mather. Peat of Rockland and Orange Counties. Geol. rep. 1st dist. (for 1838) 1839. p. 118-20.
- Mather. Marsh Alluvions. Geol. rep. 1st dist. (for 1839) 1840. p.215-24.
- Mather. Table of Localities of Peat and Marl. Geol. N. Y. pt1. 1843. p.14-16, 229.
- Merrill. Peat. Mus. bul. 15. 1895. p.556. *Same*, Mus. rep. 48 (for 1894) 1895. 1:556 (2d paging).
- Mus. bul. 19. 1898. p.227. *Same*, Mus. rep. 51 (for 1897) 1899. 1:227.
- Mitchill. Origin of Peat. Geol. N. Y. pt1. 1843. p.229-32.
- Ries. Uses of Peat and its Occurrence in New York State; with Notes on New York Localities by A. L. Parsons. Geol. rep. 21 (for 1901). *In press*.
Contains a bibliography.
- Vanuxem. Peat or Muck. Geol. N. Y. pt3. 1842. p.229-31.
- Pectolite.** Whitlock. Pectolite. Mus. bul. 58. 1902. p.94.
- Pelecypoda,** *see* Lamellibranchiata.
- Pentamerus limestone (Becraft; Coeymans).** ^aConrad. Pentamerus Limestone. Pal. rep. (for 1838) 1839. p.62, 63; (for 1840) 1841. p.31.
- Darton. Pentamerus Beds. Geol. rep. 13 (for 1893) 1894. p.213-15. *Same*, Mus. rep. 47 (for 1893) 1894. p.407-9.
- Darton. Pentamerus Limestone of Albany County. Geol. rep. 13 (for 1893) 1894. p.246-47. *Same*, Mus. rep. 47 (for 1893) 1894. p.440-41.
- Darton. Pentamerus Limestone of Ulster County. Geol. rep. 13 (for 1893) 1894. p.305. *Same*, Mus. rep. 47 (for 1893) 1894. p.499.
- Emmons. Pentamerus Limestone. Ag. N. Y. 1846. 1:166-67.
- Hall. Pentamerus Limestone. Geol. N. Y. pt4. 1843. p.144.
- Hall. Pentamerus Limestone of Clinton Group. Geol. N. Y. pt4. 1843. p.62-64.
- Hall. Organic Remains. Geol. N. Y. pt4. 1843. p.144.
- Hall. Upper Pentamerus Limestone. Geol. N. Y. pt4. 1843. p.145.
- Mather. Building Stones. Geol. N. Y. pt1. 1843. p.326-28.
- Mather. Pentamerus Limestone. Geol. rep. 1st dist. (for 1839) 1840. p.237. Geol. N. Y. pt1. 1843. p.346-49.
- Mather. Fossils. Geol. N. Y. pt1. 1843. p.347-49.
- Merrill. Lower Pentamerus Limestone. Mus. bul. 19. 1898. p.157. *Same*, Mus. rep. 51 (for 1897) 1899. 1:157.
- Ries. Pentamerus Limestone. Geol. rep. 17. (for 1897) 1899. p.368-69. *Same*, Mus. rep. 51 (for 1897) 1899. 2:368-69.

Pentamerus limestone (*continued*)

- — — *revised*. Mus. bul. 44. 1901. p.763. *Same*, Mus. rep. 54 (for 1900) 1902. 3:763.
- Ries. Pentamerus Limestone of Albany County. Geol. rep. 17 (for 1897) 1899. p.429-30. *Same*, Mus. rep. 51 (for 1897) 1899. 2:429-30.
- — — *revised*. Mus. bul. 44. 1901. p.770. *Same*, Mus. rep. 54 (for 1900) 1902. 3:770.
- Ries. Pentamerus Limestone of Columbia County. Mus. bul. 44. 1901. p.776. *Same*, Mus. rep. 54 (for 1900) 1902. 3:776.
- Ries. Pentamerus Limestones of Schoharie County. Mus. bul. 44. 1901. p.816. *Same*, Mus. rep. 54 (for 1900) 1902. 3:816.
- Ries. Pentamerus Limestone of Ulster County. Geol. rep. 17 (for 1897) 1899. p.457. *Same*, Mus. rep. 51 (for 1897) 1899. 2:457.
- — — *revised*. Mus. bul. 44. 1901. p.822-23. *Same*, Mus. rep. 54 (for 1900) 1902. 3:822-23.
- Smock. Pentamerus Limestone. Mus. bul. 3. 1888. p.22; 10. 1890. p.212.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.427. *Same*, Mus. rep. 48 (for 1894) 1895. 1:427 (2d paging).
- — — *revised* by Merrill. Mus. bul. 19. 1898. p.201. *Same*, Mus. rep. 51 (for 1897) 1899. 1:201.
- Smock. Quarries. Mus. bul. 3. 1888. p.94-134; 10. 1890. p.238-55.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.432-47. *Same*, Mus. rep. 48 (for 1894) 1895. 1:432-47 (2d paging).
- Vanuxem. Pentamerus Limestone. Geol. rep. 3d dist. (for 1839) 1840. p.376-77. Geol. N. Y. pt3. 1842. p.117-19.
- Vanuxem. Pentamerus Limestone in Herkimer County. Geol. N. Y. pt3. 1842. p.258.
- Vanuxem. Pentamerus Limestone in Madison County. Geol. N. Y. pt3. 1842. p.274.
- Vanuxem. Pentamerus Limestone in Oneida County. Geol. N. Y. pt3. 1842. p.263.
- Vanuxem. Pentamerus Limestone in Otsego County. Geol. N. Y. pt3. 1842. p.253.
- Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.117-19.
- See also* Becraft limestone; Coeymans limestone.
- Permian formation.** Meek & Hayden. Descriptions of New Organic Remains from North-Eastern Kansas, Indicating the Existence of Permian Rocks in that Territory. Alb. Inst. Trans. 1858-64. 4:73-88.
- Merrill. Permian. Mus. bul. 19. 1898. p.169-70. *Same*, Mus. rep. 51 (for 1897) 1899. 1:169-70.
- Petalite.** Beck. Petalite. Min. N. Y. 1842. p.453.
- Petrifying springs.** Beck. Petrifying Springs. Min. rep. (for 1837) 1838. p.69-72. Min. N. Y. 1842. p.156-59.
- Petroleum.** Beck. Bitumen. Min. rep. (for 1838) 1839. p.15. Min. N. Y. 1842. p.182-84, 444.
- Bishop. Petroleum and Natural Gas in Western New York. Geol. rep. 17 (for 1897) 1899. p.9-63. map. *Same*, Mus. rep. 51 (for 1897) 1899. 2:9-63. map.
- Map of the Cattaraugus oil and gas district, 34.5x24cm.
- Bishop. Oil and Gas in Southwestern New York. Geol. rep. 19 (for 1899) 1901. p.105-34. map. *Same*, Mus. rep. 53 (for 1899) 1901.1:r105-34. map.
- Map of a portion of Allegany county, N. Y. showing the outlines of the proven oil and gas territory. Aug. 7, 1899 by John W. Greenwood, 25.5x17cm.
- Felt. Insecticidal Value of. Mus. bul. 46. 1901. p.337-39. *Same*, Mus. rep. 54 (for 1900) 1902. 4:337-39.

Petroleum (*continued*)

- — Ent. rep. 16 (for 1900) 1901. p.972-77. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:972-77.
- — Ent. rep. 17 (for 1901) 1902. p.761-75. (Mus. bul. 53).
- — Ent. rep. 18 (for 1902). p.127-38. *In press*.
- Hall. Springs Evolving Carburetted Hydrogen and Petroleum. Geol. N. Y. pt4. 1843. p.309-11.
- Hall. Record of Borings of Gardner Oil well no. 3 at East Shamburg, Pa. Mus. rep. 26 (for 1872) 1874. p.31-33.
- Horsford. Oil Spring of Freedom. Geol. rep. 4th dist. (for 1839) 1840. p.464-65.
- Merrill. Petroleum and Illuminating Gas. Mus. bul. 15. 1895. p.557-60. *Same*, Mus. rep. 48 (for 1894) 1895. 1:557-60 (2d paging).
- — Mus. bul. 19. 1898. p.227-28. *Same*, Mus. rep. 51 (for 1897) 1899. 1:227-28.
- Murray. Petroleum, its History and Properties. Alb. Inst. Trans. 1858-64. 4:149-66.
- Orton. Petroleum and Natural Gas in New York. Mus. bul. 30. 1899. p.395-526. 3 maps. *Same*, Mus. rep. 53 (for 1899) 1901. 1:395-526. 3 maps.
- Map of Oswego county and Onondaga county, 23x13cm. Lake Shore belt of Chautauqua county, 22x7cm. Sketch map of central New York, 14x9cm.
- van Ingen. Petroleum. Mus. bul. 15. 1895. p.558-60. *Same*, Mus. rep. 48 (for 1894) 1895. 1:558-60 (2d paging).
- Vanuxem. Petroleum or Seneca Oil. Geol. rep. 4th dist. (for 1836) 1837. p.194-95 (ed. 2, p.196-97). Geol. rep. 3d dist. (for 1838) 1839. p.283.
- Whitlock. Petroleum. Mus. bul. 58. 1902. p.129.
- Phakolite.** Beck. Phakolite. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.140.
- Pharmacolite.** Beck. Pharmacolite. Min. N. Y. 1842. p.247-48.
- Phlogopite.** Beck. Mica. Min. N. Y. 1842. p.369-74.
- Fritz-Gaertner. Notes on Phlogopyte. Mus. rep. 31 (for 1877) 1879. p.72-78.
- Hunt. Phlogopite. Mus. rep. 21 (for 1867) 1871. p.82-83.
- Whitlock. Phlogopite. Mus. bul. 58. 1902. p.112.
- Phosphate rock.** Whitlock. Phosphate rock. Mus. bul. 58. 1902. p.118.
- Phosphuretted hydrogen.** Beck. Phosphuretted Hydrogen. Min. N. Y. 1842. p.173-74.
- Phyllite.** Beck. Phyllite. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.152.
- Phyllocarida,** *see* Crustacea (paleozoic).
- Phyllopoda,** *see* Crustacea (paleozoic).
- Physical geography.** Henry. Topographical Sketch of the State of New York, designed chiefly to Show the General Elevations and Depressions of its Surface. Alb. Inst. Trans. 1829. 1:87-112. map.
- Merrill. The State of New York showing the Surface Configuration, map 94x69cm. Geol. rep. (for 1901). *In press*.
- Tarr. Laboratory Methods of Instruction in Geology and Physical Geography. Regents rep. 108 (for 1894) 1895. 2:992-1011.
- Pickett collection.** Catalogue. Mus. rep. 21 (for 1867) 1871. p.10, 20-21.
- Pigeon tremex.** Felt. Pigeon Tremex. Mus. bul. 20. 1898. p.18-19. *Same*, Mus. rep. 52 (for 1898) 1900. 1:18-19.
- — Forest, Fish and Game Com. rep. 4 (for 1898) 1899. p.389.
- Pine bark beetle.** Felt. Pine Bark Beetle. Forest, Fish and Game Com. rep. 7 (for 1901). *In press*.
- Pine bark chermes.** Felt. Pine Bark Chermes. Forest, Fish and Game Com. rep. 7 (for 1901). *In press*.

- Pine flower cricket.** Felt. Pine Flower Cricket. Forest, Fish and Game Com. rep. 7 (for 1901). *In press.*
- Pine leaf scale insect.** Felt. Pine Leaf Scale Insect. Forest, Fish and Game Com. rep. 7 (for 1901). *In press.*
- Pine sawyer.** Felt. Pine Sawyer. Forest, Fish and Game Com. rep. 7 (for 1901). *In press.*
- Pine trees,** *see* Forest trees.
- Pine weevil.** Felt. White Pine Weevil. Forest, Fish and Game Com. rep. 7 (for 1901). *In press.*
- Pinite.** Beck. Pinite. Min. N. Y. 1842. p.453.
- Pisces,** *see* Fishes.
- Pitch-pine needle gall fly.** Felt. Pitch-pine Needle Gall Fly. Forest, Fish and Game Com. rep. 7 (for 1901). *In press.*
- Pitch twig moth.** Felt. Pitch Twig Moth. Forest, Fish and Game Com. rep. 7 (for 1901). *In press.*
- Pitchstone.** Beck. Pitchstone. Min. N. Y. 1842. p.367-68. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.143-44.
- Placid, Lake.** Kemp. Geology of the Lake Placid Region. Mus. bul. 21. 1898. p.47-67. 1pl. (phot.) map. *Same,* Mus. rep. 52 (for 1898) 1900. 1:47-67. 1pl. (phot.) map.
Geologic map of area around Lake Placid, 33x34cm.
See also Adirondacks.
- Plagioclase feldspars.** Merrill. Plagioclase Feldspars. Mus. bul. 19. 1898. p.121. *Same,* Mus. rep. 51 (for 1897) 1899. 1:121.
Whitlock. Plagioclase Feldspars. Mus. bul. 58. 1902. p.89.
- Plant lice,** *see* Hemiptera.
- Plants,** *see* Botanic collection; Botany; Paleobotany.
- Plaster.** Hall. Plaster. Geol. rep. 4th dist. (for 1837) 1838. p.340-42; (for 1840) 1841. p.151-53, 156-57. Geol. N. Y. pt.4. 1843. p.430-31, 449, 465, 469-70.
Lincoln. Plaster Rock of Seneca County. Geol. rep. 14 (for 1894) 1895. p.115-16. *Same,* Mus. rep. 48 (for 1894) 1895. 2:115-16.
- Plaster of paris.** Beck. Plaster of Paris. Min. N. Y. 1842. p.62.
- Platinum.** Whitlock. Platinum. Mus. bul. 58. 1902. p.51.
- Platycnemic man.** Sherzer. Platycnemic Man in New York. Geol. rep. 13 (for 1893) 1894. p.659-83. *Same,* Mus. rep. 47 (for 1893) 1894. p.853-77.
- Plecoptera,** *see* Neuropteroid insects.
- Pleistocene.** Bishop. Quaternary Geology of Erie County. Geol. rep. 15 (for 1895) 1897. p.323-24. *Same,* Mus. rep. 49 (for 1895) 1898. 2:323-24.
Cushing. Pleistocene Deposits of Clinton County. Geol. rep. 15 (for 1895) 1897. p.527-73. *Same,* Mus. rep. 49 (for 1895) 1898. 2:527-73.
— — Geol. rep. 19 (for 1899) 1901. p.75-78. *Same,* Mus. rep. 53 (for 1899) 1901. 1:r75-78.
Cushing. Glacial Deposits North of the Adirondacks. Geol. rep. 16 (for 1896) 1899. p.7-8. *Same,* Mus. rep. 50 (for 1896) 1899. 2:7-8.
Darton. Pleistocene Geology of Albany County. Geol. rep. 13 (for 1893) 1894. p.259-61. *Same,* Mus. rep. 47 (for 1893) 1894. p.453-55.
Darton. Pleistocene Geology of Ulster County. Geol. rep. 13 (for 1893) 1894. p.368-72. *Same,* Mus. rep. 47 (for 1893) 1894. p.562-66.
Fairchild. Pleistocene Geology of Western New York. Geol. rep. 20 (for 1900) 1902. p.103-39. *Same,* Mus. rep. 54 (for 1900) 1902. 1:r103-39.
Kemp. Glacial Deposits of Essex County. Geol. rep. 13 (for 1893) 1894. p.447-72. *Same,* Mus. rep. 47 (for 1893) 1894. p.641-66.
— — Geol. rep. 15 (for 1895) 1897. p.580-608. *Same,* Mus. rep. 49 (for 1895) 1898. 2:580-608.

Pleistocene (*continued*)

- Kemp**. Moraines of Lake Placid Region. Mus. bul. 21. 1898. p.59, 62-63.
Same, Mus. rep. 52 (for 1898) 1900. 1:59, 62-63.
- Kemp & Newland**. Glacial Deposits of Adirondacks. Geol. rep. 17 (for 1897) 1899. p.511-53. *Same*, Mus. rep. 51 (for 1897) 1899. 2:511-53.
- Kemp, Newland & Hill**. Glacial Deposits of Adirondacks. Geol. rep. 18 (for 1898) 1899. p.152-62. *Same*, Mus. rep. 52 (for 1898) 1900. 2:152-62.
- Kemp & Hill**. Glacial Deposits of Warren County. Geol. rep. 19 (for 1899) 1901. p.r27. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r27.
- Luther**. Quaternary Deposits of Onondaga County. Geol. rep. 15 (for 1895) 1897. p.286-92. *Same*, Mus. rep. 49 (for 1895) 1898. 2:286-92.
- Ries**. Pleistocene Deposits of Orange County. Geol. rep. 15 (for 1895) 1897. p.405, 462-66. *Same*, Mus. rep. 49 (for 1895) 1898. 2:405, 462-66.
- Woodworth**. Pleistocene Geology of Portions of Nassau County and Borough of Queens. Mus. bul. 48. 1901. p.617-64. pl. (phot.) maps. *Same*, Mus. rep. 54 (for 1900) 1902. 4:617-64. pl. (phot.) maps. Sketch map of a part of Long Island, 22.5x18.5cm.
- See also* Calcareous tufa; Drift; Finger lakes; Glacial deposits; Marl; Peat; Quaternary system.
- Pleurotus**. Peck. New York Species of Pleurotus, Claudopus and Crepidotus. Mus. rep. 39 (for 1885) 1886. p.58-73.
- Plum curculio**. Lintner. Plum Curculio. Ent. rep. 7 (for 1890) 1891. p.288-96. *Same*, Mus. rep. 44 (for 1890) 1892. p.288-96.
- Plumbago**, *see* Graphite.
- Pluteolus**. Peck. New York Species of Pluteolus. Bot. rep. 46 (for 1892) 1893. p.58-61. *Same*, Mus. rep. 46 (for 1892) 1893. p.138-41.
- Pluteus**. Peck. New York Species of Pluteus. Mus. rep. 38 (for 1884) 1885. p.133-38.
- Plutonic dikes**, *see* Dikes.
- Pocono group**. Merrill. Pocono Group. Mus. bul. 19. 1898. p.166. *Same*, Mus. rep. 51 (for 1897) 1899. 1:166.
- Polar currents**. Mather. Causes of Polar Currents. Geol. N. Y. pt1. 1843. p.221-23.
- Mather. Influences of these Currents in Distribution of Drift. Geol. N. Y. pt1. 1843. p.223-28.
- Polishing materials**. Ries. Polishing and Abrasive Materials. Mus. bul. 35. 1900. p.852-53. *Same*, Mus. rep. 51 (for 1900) 1902. 2:852-53.
- Polymignite**. Beck. Polymignite. Min. N. Y. 1842. p.453.
- Porcelain**. Ries. Porcelain. Mus. bul. 35. 1900. p.794-824. *Same*, Mus. rep. 54 (for 1900) 1902. 2:794-824.
- See also* Pottery.
- Porifera**, *see* Spongiae.
- Porphyry**. Emmons. Porphyry. Geol. N. Y. pt2. 1842. p.84-87.
 Emmons. Porphyry of Essex County. Geol. N. Y. pt2. 1842. p.265.
- Portage group (Gardeau)**. Bishop. Portage Group of Erie County. Geol. rep. 15 (for 1895) 1897. p.320-22, 389. *Same*, Mus. rep. 49 (for 1895) 1898. 2:320-22, 389.
- Clarke**. Portage Shales and Flags of Ontario County. Geol. rep. 4 (for 1884) 1885. p.20-21.
- Clarke**. Report on Field Work in Chenango County. Geol. rep. 13 (for 1893) 1894. p.531-57. *Same*, Mus. rep. 47 (for 1893) 1894. p.725-51.
- Clarke**. Stratigraphic and Faunal Relations of the Oneonta Sandstones and Shales, the Ithaca and the Portage Groups in Central New York. Geol. rep. 15 (for 1895) 1897. p.11-12, 27-81. pl. (phot.) 2 maps 25x28.5, 26x26.5cm. *Same*, Mus. rep. 49 (for 1895) 1898. 2:11-12, 27-81. pl. (phot.) 2 maps 25x28.5, 26x26.5cm.

Portage group (*continued*)

- Clarke. Bibliography. Geol. rep. 16 (for 1896) 1899. p.32. *Same*, Mus. rep. 50 (for 1896) 1899. 2:32.
- Clarke. Paropsonema cryptophya: a Peculiar Echinoderm from the Intumescens-zone (Portage beds) of Western New York. Mus. bul. 39. 1900. p.172-78. pl.5-9. *Same*, Mus. rep. 54 (for 1900) 1902. 3:172-78. pl.5-9.
- Clarke & Schuchert. Portage Beds. *See* New York series.
- Dickinson. Quarries of Bluestone and other Sandstones. Mus. bul. 61. *In press*.
- Emmons. Portage Group. Ag. N. Y. 1846. 1:188-93.
- Evans. Portage Group of Madison County. Ag. Soc. Trans. 11 (for 1851) 1852. p.700.
- ^aHall. Portage, or, Upper Fucoidal Group. Geol. rep. 4th dist. (for 1839) 1840. p.391-92.
- Hall. Portage or Nunda Group. Geol. N. Y. pt4. 1843. p.224-49.
- Hall. Portage Rocks in Allegany County. Geol. rep. 4th dist. (for 1839) 1840. p.401. Geol. N. Y. pt4. 1843. p.484.
- Hall. Portage Group in Cattaraugus County. Geol. rep. 4th dist. (for 1839) 1840. p.412. Geol. N. Y. pt4. 1843. p.488-89.
- Hall. Portage Group in Chautauqua County. Geol. rep. 4th dist. (for 1840) 1841. p.170. Geol. N. Y. pt4. 1843. p.494.
- Hall. Portage Group in Chemung County. Geol. N. Y. pt4. 1843. p.477.
- Hall. Portage Group in Erie County. Geol. rep. 4th dist. (for 1840) 1841. p.165-67. Geol. N. Y. pt4. 1843. p.473-74.
- Hall. Portage Rocks in Genesee County. Geol. rep. 4th dist. (for 1839) 1840. p.430-31. Geol. N. Y. pt4. 1843. p.467, 468.
- Hall. Portage Group in Livingston County. Geol. rep. 4th dist. (for 1839) 1840. p.423. Geol. N. Y. pt4. 1843. p.463.
- Hall. Portage Group in Ontario County. Geol. rep. 4th dist. (for 1838) 1839. p.314. Geol. N. Y. pt4. 1843. p.457.
- Hall. Portage Group in Seneca County. Geol. rep. 4th dist. (for 1838) 1839. p.302-4. Geol. N. Y. pt4. 1843. p.452.
- Hall. Portage Group in Steuben County. Geol. rep. 4th dist. (for 1839) 1840. p.395. Geol. N. Y. pt4. 1843. p.480.
- Hall. Portage Group in Tompkins County. Geol. rep. 4th dist. (for 1838) 1839. p.317. Geol. N. Y. pt4. 1843. p.475.
- Hall. Portage Group in Yates County. Geol. rep. 4th dist. (for 1838) 1839. p.315. Geol. N. Y. pt4. 1843. p.458.
- Hall. Minerals. Geol. N. Y. pt4. 1843. p.239.
- Hall. Organic Remains. Geol. N. Y. pt4. 1843. p.241-47.
- Hall. Fossil Brachiopoda of the Upper Helderberg, Hamilton, Portage and Chemung Groups. Pal. N. Y. 1867. v.4. 42Sp. 99pl.
- Hall. Gasteropoda, Pteropoda, and Cephalopoda of the Upper Helderberg, Hamilton, Portage and Chemung Groups. Pal. N. Y. 1879. v.5. pt2. 492p.; (v.1, text, v.2, 120pl.); 1888. v.7, supplement. 42p. 18pl.
- Hall. Lamellibranchiata, Dimyaria of the Upper Helderberg, Hamilton, Portage and Chemung Groups. Pal. N. Y. 1885. v.5. pt1. p.269-561. 51pl.
- Hall & Clarke. Trilobites and other Crustacea of the Oriskany, Upper Helderberg, Hamilton, Portage, Chemung and Catskill Groups. Pal. N. Y. 1888. v.7, 236p. 46pl.
- Lincklaen. Portage Group; Fossils. Mus. rep. 14 (for 1860) 1861. p.68-69.

^a First use of term.

Portage group (*continued*)

- Lincoln. Portage Beds of Seneca County. Geol. rep. 14 (for 1894) 1895. p.99-102, 103. *Same*, Mus. rep. 48 (for 1894) 1895. 2:99-102, 103.
- Luther. Portage Group. Geol. rep. 16 (for 1896) 1899. p.223-25. *Same*, Mus. rep. 50 (for 1896) 1899. 2:223-25.
- Luther. Portage Group in Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p.31-34. *Same*, Mus. rep. 47 (for 1893) 1894. p.225-28.
- Luther. Stratigraphy of the Portage Formation between the Genesee Valley and Lake Erie. Pal. rep. (for 1902). *In press*.
- Merrill. Portage Group. Mus. bul. 19. 1898. p.164. *Same*, Mus. rep. 51 (for 1897) 1899. 1:164.
- Ries. Portage Shale. Geol. rep. 15 (for 1895) 1897. p.694-95. *Same*, Mus. rep. 49 (for 1895) 1898. 2:694-95.
- — — Mus. bul. 35. 1900. p.834-36. *Same*, Mus. rep. 54 (for 1900) 1902. 2:834-36.
- Smock. Portage Group. Mus. bul. 3. 1888. p.17-18; 10. 1890. p.223-24.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.388-89. *Same*, Mus. rep. 48 (for 1894) 1895. 1:388-89 (2d paging).
- — — *revised* by Merrill. Mus. bul. 19. 1898. p.193. *Same*, Mus. rep. 51 (for 1897) 1899. 1:193.
- Smock. Quarries. Mus. bul. 3. 1888. p.71-85; 10. 1890. p.265-75.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.400-8. *Same*, Mus. rep. 48 (for 1894) 1895. 1:400-8 (2d paging).
- Vanuxem. Portage or Nunda Group. Geol. N. Y. pt3. 1842. p.172-74.
- Vanuxem. Portage or Nunda Group in Cayuga County. Geol. N. Y. pt3. 1842. p.289.
- Vanuxem. Portage or Nunda Group in Chenango County. Geol. N. Y. pt3. 1842. p.292-93.
- Vanuxem. Portage or Nunda Group in Cortland County. Geol. N. Y. pt3. 1842. p.290.
- Vanuxem. Portage or Nunda Group in Madison County. Geol. N. Y. pt3. 1842. p.277.
- Vanuxem. Portage or Nunda Group in Otsego County. Geol. N. Y. pt3. 1842. p.254.
- Vanuxem. Portage or Nunda Group in Tompkins County. Geol. N. Y. pt3. 1842. p.298.
- Wright. Portage Group in Yates County. Mus. rep. 35 (for 1881) 1884. p.198-200.
- See also* Cashaqua shale; Gardeau group; Ithaca group; Naples shales; Oneonta sandstone.
- Portage sandstones (Oneonta).** Bishop. Portage Sandstones of Erie County. Geol. rep. 15 (for 1895) 1897. p.333. *Same*, Mus. rep. 49 (for 1895) 1898. 2:333.
- Clarke. Portage Sandstones of Ontario County. Geol. rep. 4 (for 1884) 1885. p.21-22.
- ♠Hall. Portage Sandstones. Geol. N. Y. pt4. 1843. p.228.
- Lincoln. Portage Sandstone of Seneca County. Geol. rep. 14 (for 1894) 1895. p.112-15. *Same*, Mus. rep. 48 (for 1894) 1895. 2:112-15.
- Luther. Stratigraphic Position of the Portage Sandstones in the Naples Valley and the Adjoining Region. Geol. rep. 15 (for 1895) 1897. p.13-14, 223-36. pl. (phot.) map. *Same*, Mus. rep. 49 (for 1895) 1898. 2:13-14, 223-36. pl. (phot.) map.
- Geologic map of the township of Naples, 17x16.5cm.

Portage sandstones (*continued*)

Luther. Stratigraphic Value of the Portage Sandstones. Mus. bul. 52. 1902. p.616-31.

See also Oneonta sandstone.

Portland cement, *see* Cement.

Potash. Beck. Sulphate of Potash, Carbonate of Potash, Muriate of Potash, Hydrobromate of Potash. Min. rep. (for 1838) 1839. p.17. Min. N. Y. 1842. p.201-2.

Potassium dichromate. Ries. Potassium Dichromate. Mus. bul. 44. 1901. p.671. *Same*, Mus. rep. 54 (for 1900) 1902. 3:671.

Potsdam sandstone. Clarke & Schuchert. Potsdam Sandstones. *See* New York series.

Conrad. Potsdam Sandstone. Pal. rep. (for 1840) 1841. p.31.

Cushing. Potsdam Sandstone of Clinton County. Geol. rep. 13 (for 1893) 1894. p.476, 478-79. *Same*, Mus. rep. 47 (for 1893) 1894. p.670, 672-73.

— — — Geol. rep. 15 (for 1895) 1897. p.510-73. *Same*, Mus. rep. 49 (for 1895) 1898. 2:510-73.

— — — Geol. rep. 19 (for 1899) 1901. p.63-66. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r63-66.

Cushing. Report on the Boundary between the Potsdam and pre-Cambrian Rocks North of the Adirondacks. Geol. rep. 16 (for 1896) 1899. p.1-27. map (uncolored) 18x31cm. *Same*, Mus. rep. 50 (for 1896) 1899. 2:1-27. map (uncolored) 18x31cm.

Darton. Potsdam Sandstone in Mohawk Valley Region. Geol. rep. 13 (for 1893) 1894. p.410-17. *Same*, Mus. rep. 47 (for 1893) 1894. p.604-11.

^aEmmons. Sandstone of Potsdam. Geol. rep. 2d dist. (for 1837) 1838. p.214-17.

Emmons. Accumulation of Materials composing the Potsdam Sandstone. Geol. rep. 2d dist. (for 1839) 1840. p.347-49.

Emmons. Potsdam Sandstone. Geol. N. Y. pt2. 1842. p.102-5. Ag. N. Y. 1846. 1:117-18.

Emmons. Potsdam Sandstone in Clinton County. Geol. N. Y. pt2. 1842. p.308-10.

Emmons. Potsdam Sandstone in Essex County. Geol. rep. 2d dist. (for 1837) 1838. p.230-32. Geol. N. Y. pt2. 1842. p.266-69.

Emmons. Potsdam Sandstone in Franklin County. Geol. N. Y. pt2. 1842. p.331-32.

Emmons. Relations of the Potsdam Sandstone in Jefferson County. Geol. rep. 2d dist. (for 1839) 1840. p.322. Geol. N. Y. pt2. 1842. p.377-80.

Emmons. Potsdam Sandstone in St Lawrence County. Geol. N. Y. pt2. 1842. p.360-61.

Emmons. Potsdam Sandstone in Warren County. Geol. N. Y. pt2. 1842. p.177-79.

Emmons. Fossils. Geol. N. Y. pt2. 1842. p.105, 268-69.

Fitch. Potsdam Sandstone of Washington County. Ag. Soc. Trans. 9 (for 1849) 1850. p.824-25.

Hall. Potsdam Sandstone. Geol. N. Y. pt4. 1843. p.27-28. Pal. N. Y. 1859. 3:1-4.

Hall. Organic Remains. Pal. N. Y. 1847. 1:1-4.

Hall. Preliminary Notice of the Fauna of the Potsdam Sandstone, with remarks upon the previously known species of fossils and descriptions of some new ones from the sandstone of the upper Mississippi valley. Mus. rep. 16 (for 1862) 1863. p.119-209. 6pl.

Also published in Alb. Inst. Trans. 1867. 5:93-195.

^aFirst use of term.

Potsdam sandstone (*continued*)

- Hall. Supplementary Note on the Potsdam Sandstone. Mus. rep. 16 (for 1862) 1863. p.210-22.
- Hall & Whitfield. Notice of Two New Species of Fossil Shells from the Potsdam Sandstone of New York. Mus. rep. 23 (for 1869) 1873. p.241-42.
- Hall. Crustaceous Tracks from Potsdam Sandstone of Port Henry, N. Y. Mus. rep. 42 (for 1888) 1889. p.25-34. 1pl.
- Kemp. Potsdam Sandstone of Essex County. Geol. rep. 13 (for 1893) 1894. p.416-72. *Same*, Mus. rep. 47 (for 1893) 1894. p.640-66.
- Kemp & Newland. Potsdam Sandstone of Adirondacks. Geol. rep. 17 (for 1897) 1899. p.511-52. *Same*, Mus. rep. 51 (for 1897) 1899. 2:511-52.
- Kemp, Newland & Hill. Potsdam Sandstone of Adirondacks. Geol. rep. 18 (for 1898) 1899. p.145-48, 161. *Same*, Mus. rep. 52 (for 1898) 1900. 2:145-48, 161.
- Kemp & Hill. Potsdam Sandstone of Montgomery and Fulton Counties. Geol. rep. 19 (for 1899) 1901. p.r33. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r33.
- Lincklaen. Potsdam Sandstone; Fossils. Mus. rep. 14 (for 1860) 1861. p.36-37.
- Mather. Potsdam Sandstone. Geol. rep. 1st dist. (for 1840) 1841. p.101-3. Geol. N. Y. pt1. 1843. p.418-19.
- Merrill. Potsdam. Mus. bul. 19. 1898. p.144-45. *Same*, Mus. rep. 51 (for 1897) 1899. 1:144-45.
- Smock. Potsdam Sandstone. Mus. bul. 3. 1888. p.15; 10. 1890. p.217-18. ——— *revised* by Merrill. Mus. bul. 15. 1895. p.383-84. *Same*, Mus. rep. 48 (for 1894) 1895. 1:383-84 (2d paging).
- *revised* by Merrill. Mus. bul. 19. 1898. p.187-88. *Same*, Mus. rep. 51 (for 1897) 1899. 1:187-88.
- Smock. Quarries. Mus. bul. 3. 1888. p.45-51. 10. 1890. p.255-58. ——— *revised* by Merrill. Mus. bul. 15. 1895. p.391-94. *Same*, Mus. rep. 48 (for 1894) 1895. 1:391-94 (2d paging).
- Smock. Microscopic Structure. Mus. bul. 10. 1890. p.361.
- Smyth. Potsdam Sandstone in the Vicinity of the St Lawrence River. Geol. rep. 19 (for 1899) 1901. p.r98-104. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r98-104.
- van Ingen. Potsdam Sandstone of the Lake Champlain Basin. Mus. bul. 52. 1902. p.529-45.
- Vanuxem. Potsdam Sandstone. Geol. N. Y. pt3. 1842. p.28-29.
- Vanuxem. Potsdam Sandstone in Lewis County. Geol. rep. 3d dist. (for 1839) 1840. p.363, 368. Geol. N. Y. pt3. 1842. p.265, 267.
- Vanuxem. Potsdam Sandstone in Montgomery County. Geol. N. Y. pt3. 1842. p.250.
- Woodworth. On the Sedentary Impression of the Animal whose Trail is Known as Climactichnites. Pal. rep. (for 1902). *In press*.
- Potsdamian.** Clarke & Schuchert. Potsdamian. *See* New York series.
- Pottery.** Beauchamp. Earthenware of the New York Aborigines. Mus. bul. 22. 1898. p.73-146. 33 pl. (phot.). *Same*, Mus. rep. 52 (for 1898) 1900. 1:73-146. 33 pl. (phot.)
- Merrill. Directory of Manufacturers of Earthenware. Mus. bul. 15. 1895. p.502-18. *Same*, Mus. rep. 48 (for 1894) 1895. 1:502-18 (2d paging).
- Ries. Stoneware. Mus. bul. 12. 1895. p.229-35. *Same*, Mus. rep. 48 (for 1894) 1895. 1:229-35 (2d paging).
- Ries. Pottery and Porcelain. Mus. bul. 35. 1900. p.791-824, 878-81. *Same*, Mus. rep. 54 (for 1900) 1902. 2:791-824, 878-81.

Pottery (*continued*)

Ries. Directory of Manufacturers. Mus. bul. 35. 1900. p.913-25. *Same*, Mus. rep. 54 (for 1900) 1902. 2:913-25.

Ries. Pottery Glazes. Mus. bul. 44. 1901 p.672. *Same*, Mus. rep. 54 (for 1900) 1902. 3:672.

Pottsville conglomerate. Merrill. Pottsville Conglomerate. Mus. bul. 19. 1898. p.167. *Same*, Mus. rep. 51 (for 1897) 1899. 1:167.

Poughkeepsie. Smock. Stone Construction in. Mus. bul. 10. 1850. p.321-22.

Precambrian rocks, *see* Crystalline rocks.

Precious stones. Catalogue of Gems and Precious Stones. Mus. rep. 41 (for 1887) 1888. p.44-48.

Prehnite. Beck. Prehnite. Min. N. Y. 1842. p.349-50. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.141.

Emmons. Chiltonite. Geol. rep. 2d dist. (for 1837) 1838. p.251-52; (for 1840) 1841. p.135.

Emmons. Prehnite. Geol. rep. 2d dist. (for 1840) 1841. p.135.

Whitlock. Prehnite. Mus. bul. 58. 1902. p.105.

Primary rocks. Emmons. Primitive Rocks. Geol. rep. 2d dist. (for 1836) 1837. p.106-16, 120-21 (ed. 2, p.108-18, 122-23).

Emmons. Granite, etc. Geol. rep. 2d dist. (for 1836) 1837. p.109-20 (ed. 2, p.111-22).

Emmons. Classification of the Primary Rocks, comprehending those only which have been observed in the northern district. Geol. N. Y. pt2. 1842. p.23.

Mather. Metamorphic and Primitive Rocks and their Contents. Geol. rep. 1st dist. (for 1840) 1841. p.103-5.

Mather. Primary Rocks. Geol. N. Y. pt1. 1843. p.516-76.

Vanuxem. Advantages of Study in United States. Geol. rep. 4th dist. (for 1836) 1837. p.204-9 (ed. 2, p.206-11).

Vanuxem. Primary Rocks. Geol. rep. 3d dist. (for 1839) 1840. p.367-68. *See also* Archaean; Crystalline rocks.

Primary system. Vanuxem. Primary System. Geol. N. Y. pt3. 1842. p.15, 17-21, 195.

Primitive limestone. Emmons. Primitive Limestone. Geol. rep. 2d dist. (for 1837) 1838. p.196-205.

Emmons. Primitive Limestone; Igneous Origin. Geol. N. Y. pt2. 1842. p.37-67.

Emmons. Primary Limestone in Essex County. Geol. N. Y. pt2. 1842. p.225-29.

Emmons. Primary Limestone in St Lawrence County. Geol. N. Y. pt1. 1842. p.340.

Emmons. Primitive Limestone in Warren County. Geol. rep. 2d dist. (for 1838) 1839. p.236. Geol. N. Y. pt2. 1842. p.175-76.

Gale. White or Primary Limestone of New York County. Geol. rep. 1st dist. (for 1838) 1839. p.191-92.

Horton. White Limestone, Primitive or Granular Limerock. Geol. rep. 1st dist. (for 1838) 1839. p.139-41.

Vanuxem. Primitive Limestone in Lewis County. Geol. N. Y. pt3. 1842. p.266.

See also Crystalline rocks.

Prochlorite. Whitlock. Prochlorite. Mus. bul. 58. 1902. p.112.

Protean group. ^aVanuxem. Protean Group. Geol. rep. 3d dist. (for 1837) 1838. p.284; (for 1838) 1839. p.246-49; (for 1839) 1840. p.374-75.

See also Clinton group; Niagara group.

^aFirst use of term.

- Protozoa (paleozoic).** Clarke. Type Specimens in New York State Museum. Mus. bul. 65. *In press.*
- Hall. Protozoa of Niagara Group in Central Indiana. Mus. rep. 28 (for 1874) 1879. p.103-5.
- See also* Rhizopoda.
- Proustite.** Whitlock. Proustite. Mus. bul. 58. 1902. p.62.
- Psalliota.** Peck. New York Species of Psalliota. Mus. rep. 36 (for 1882) 1884. p.41-49.
- Psilomelane.** Whitlock. Psilomelane. Mus. bul. 58. 1902. p.79.
- Pteropoda.** De Kay. Pteropoda. Zool. N. Y. 1843. v.5. pt5. p.6
- Pteropoda (paleozoic).** Clarke. Oriskany Species of Becraft Mountain. Mus. mem. 3. 1900. p.28. *Same*, Mus. rep. 53 (for 1899) 1901. 2:28.
- Clarke. Type Specimens in New York State Museum. Mus. bul. 65. *In press.*
- Grabau. Pteropoda of Hamilton Group. Geol. rep. 16 (for 1896) 1899. p.245-46. *Same*, Mus. rep. 50 (for 1896) 1899. 2:245-46.
- Hall. Pteropoda of Lower Helderberg group. Pal. N. Y. 1859. 3:347-48.
- Hall. Pteropoda of Oriskany Sandstone. Pal. N. Y. 1859. 3:479-80.
- Hall. Pteropoda of Potsdam Sandstone. Mus. rep. 16 (for 1862) 1863. p.135.
- Hall. Illustrations of Devonian Fossils. Pteropoda. 1876.
- Hall. Pteropoda of the Palaeozoic Formations. Pal. N. Y. 1879. v.5, pt2. p.155-216. (v.1, text; v.2 plates); 1888. v.7, supplement, p.5-7, pl.114.
- Ruedemann. Note on the Discovery of a Sessile Conularia. Geol. rep. 15 (for 1895) 1897. 1:24, 699-728. 4pl. *Same*, Mus. rep. 49 (for 1895) 1898. 2:24, 699-728. 4pl.
- Ruedemann. Pteropoda of Trenton Conglomerate of Rysedorph Hill. Mus. bul. 49. 1901. p.36-38.
- Wood. Pteropoda of Marcellus (Stafford) Limestones of Lancaster, Erie Co. N. Y. Mus. bul. 49. 1901. p.170-71.
- Puccinia.** Peck. Synopsis of New York Puccinia. Bot. rep. 25 (for 1871) 1873. p.110-23. *Same*, Mus. rep. 25 (for 1871) 1873. p.110-23.
- Puddle.** Ries. Puddle. Mus. bul. 35. 1900. p.853. *Same*, Mus. rep. 54 (for 1900) 1902. 2:853.
- Pulaski shales (Frankfort; Hudson River; Lorraine).** ^aVanuxem. Pulaski Shales. Geol. rep. 3d dist. (for 1839) 1840. p.373-74. Geol. N. Y. pt3. 1842. p.64.
- Vanuxem. Pulaski Shales in Lewis County. Geol. rep. 3d dist. (for 1839) 1840. p.356. Geol. N. Y. pt3. 1842. p.265.
- Vanuxem. Pulaski Shales in Oneida County. Geol. N. Y. pt3. 1842. p.261.
- Vanuxem. Pulaski Shales in Oswego County. Geol. N. Y. pt3. 1842. p.270.
- See also* Frankfort slates; Hudson river group; Lorraine beds.
- Putnam county.** Beck. Magnetic Oxide of Iron. Min. N. Y. 1842. p.10-12.
- Beck. Mineralogy. Min. rep. (for 1839) 1840. p.84-88.
- Mather. Economic Geology. Geol. rep. 1st dist. (for 1838) 1839. p.72-114.
- Mather. Metamorphic Limestones. Geol. N. Y. pt1. 1843. p.450, 480-85.
- Mather. Serpentine. Geol. N. Y. pt1. 1843. p.462-63.
- Mather. Steatite in. Geol. N. Y. pt1. 1843. p.487.
- Mather. Limonites and Hematite. Geol. N. Y. pt1. 1843. p.488-89.
- Mather. Primary Rocks. Geol. N. Y. pt1. 1843. p.525-34.
- Mather. Magnetic Oxide of Iron. Geol. N. Y. pt1. 1843. p.559-64.

Putnam county (*continued*)

Mather. Dip and Strike of Rocks. Geol. N. Y. pt.1. 1843. p.610-11.

Ries. Limestones. Geol. rep. 17 (for 1897) 1899. p.451-52. *Same*, Mus. rep. 51 (for 1897) 1899. 2:451-52.

— — *revised*. Mus. bul. 44. 1901. p.811. *Same*, Mus. rep. 54 (for 1900) 1902. 3:811.

Smock. Geological Reconnaissance in the Crystalline Rock Region: Dutchess, Putnam and Westchester Counties, N. Y. Mus. rep. 39 (for 1885) 1886. p.165-85, map.

Map of Archaean areas of Highlands (uncolored) 11x18.5cm.

Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.29, 31, 42; 10. 1890. p.230, 231, 236.

— — *revised* by Merrill. Mus. bul. 15. 1895. p.377, 378, 431. *Same*, Mus. rep. 48 (for 1894) 1895. 1:377, 378, 431 (2d paging).

See also Highlands of Hudson.

Putnam's scale insect. Felt. Putnam's Scale Insect. Mus. bul. 46. 1901. p.326-30. *Same*, Mus. rep. 54 (for 1900) 1902. 4:326-30.

Pyrallolite. Hunt. Pyralloite. Mus. rep. 21 (for 1867) 1871. p.79.

See also Rensselaerite.

Pyrrargyrite. Whitlock. Pyrrargyrite. Mus. bul. 58. 1902. p.61.

Pyrite. Beck. Bisulphuret of Iron, or Iron Pyrites. Min. rep. (for 1836) 1837. p.40-41 (ed. 2, p.42-43). Min. N. Y. 1842. p.387-91. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.148.

Fitch. Iron Pyrites of Washington County. Ag. Soc. Trans. 9 (for 1849) 1850. p.833-34.

Hunt. Iron Pyrites. Mus. rep. 21 (for 1867) 1871. p.89-90.

Loomis. The Dwarf Fauna of the Pyrite Layer at the Horizon of the Tully Limestone in Western New York. Pal. rep. (for 1902). *In press*.

Mather. Pyrites of Putnam, Westchester and New York Counties. Geol. rep. 1st dist. (for 1838) 1839. p.106-7.

Merrill. Localities. Mus. bul. 15. 1895. p.579. *Same*, Mus. rep. 48 (for 1894) 1895. 1:579 (2d paging).

— — Mus. bul. 19. 1898. p.231. *Same*, Mus. rep. 51 (for 1897) 1899. 1:231.

Nason. Pyrite. Mus. bul. 4. 1888. p.8.

Vanuxem. Iron Pyrites. Geol. rep. 4th dist. (for 1836) 1837. p.199-200 (ed. 2, p. 201-2).

Whitlock. Pyrite (iron pyrites). Mus. bul. 58. 1902. p.58, 60.

Pyritiferous rock. Vanuxem. Pyritiferous Rock. Geol. rep. 3d dist. (for 1837) 1838. p.272-73, 285.

See also Marcellus shales; Hamilton group.

Pyritous grit. Mather. Pyritous Grit. Geol. N. Y. pt.1. 1843. p.362.

Pyritous stratum. Mather. Pyritous Stratum. Geol. rep. 1st dist. (for 1839) 1840. p.288, 244-46.

Pyrolusite. Beck. Pyrolusite-Binoxide of Manganese. Min. rep. (for 1836) 1837. p.59 (ed. 2, p.61).

Whitlock. Pyrolusite. Mus. bul. 58. 1902. p.76.

Pyromorphite. Beck. Pyromorphite. Min. N. Y. 1842. p.417.

Whitlock. Pyromorphite. Mus. bul. 58. 1902. p.118-19.

Pyrophyllite. Beck. Pyrophyllite. Min. N. Y. 1842. p.368-69. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.144.

Whitlock. Pyrophyllite. Mus. bul. 58. 1902. p.115.

Pyroxene. Beck. Pyroxene. Min. N. Y. 1842. p.286-96. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.133-34.

Emmons. Pyroxene. Ag. N. Y. 1846. 1:40.

Hunt. Pyroxene. Mus. rep. 21 (for 1867) 1871. p.78.

Pyroxene (*continued*)

- Merrill. Pyroxenes. Mus. bul. 19. 1898. p.121. *Same*, Mus. rep. 51 (for 1897) 1899. 1:121.
- Nason. Pyroxenes from the Mineral Locality at Chilson Hill, Ticonderoga N. Y. Mus. bul. 4. 1888. p.12-16.
- Whitlock. Pyroxene. Mus. bul. 58. 1902. p.92.
- Pyroxenic steatite**, *see* Rensselaerite.
- Pyroxenites**. Merrill. Pyroxenites. Mus. rep. 50 (for 1896) 1898. 1:31 (1st paging).
- Pyrrhotite**. Beck. Magnetic Iron Pyrites. Min. N. Y. 1842. p.392-93.
- Hunt. Magnetic Pyrites. Mus. rep. 21 (for 1867) 1871. p.90.
- Whitlock. Pyrrhotite. Mus. bul. 58. 1902. p.56-57.
- Quartz**. Beck. Quartz. Min. N. Y. 1842. p.257-69, 444. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.129-31.
- Emmons. Granular Quartz. Geol. N. Y. pt2. 1842. p.158-61.
- Hunt. Quartz. Mus. rep. 21 (for 1867) 1871. p.86.
- Mather. Quartz Rock of Westchester and Putnam Counties. Geol. rep. 1st dist. (for 1838) 1839. p.87.
- Mather. Quartz Rock. Geol. N. Y. pt1. 1843. p.541.
- Merrill. Quartz. Mus. bul. 15. 1895. p.552. *Same*, Mus. rep. 48 (for 1894) 1895. 1:552 (2d paging).
- — — Mus. bul. 19. 1898. p.120, 224-25. *Same*, Mus. rep. 51 (for 1897) 1899. 1:120, 224-25.
- Nason. Quartz. Mus. bul. 4. 1888. p.8, 14.
- Ries. Quartz. Mus. bul. 35. 1900. p.843-44. *Same*, Mus. rep. 54 (for 1900) 1902. 2:843-44.
- Whitlock. Quartz. Mus. bul. 58. 1902. p.66-68.
- Quartzite**. Kemp. Quartzite of Lake Placid Region. Mus. bul. 21. 1898. p.54, 60. *Same*, Mus. rep. 52 (for 1898) 1900. 1:54, 60.
- Kemp & Newland. Quartzites of Adirondacks. Geol. rep. 17 (for 1897) 1899. p.511-52. *Same*, Mus. rep. 51 (for 1897) 1899. 2:511-52.
- Smyth. Quartzites of St Lawrence and Jefferson Counties. Geol. rep. 13 (for 1893) 1894. p.493, 495. *Same*, Mus. rep. 47 (for 1893) 1894. p.687, 689.
- See also* Sandstones.
- Quaternary division**. Mather. Quaternary Division. Geol. N. Y. pt1. 1843. p.123-58.
- Mather. Economical Applications. Geol. N. Y. pt1. 1843. p.141-45.
- Quaternary marls**, *see* Marl.
- Quaternary system**. Mather. Quaternary System. Geol. N. Y. pt1. 1843. p.4-237.
- Merrill. Quaternary System. Mus. bul. 19. 1898. p.175-79. *Same*, Mus. rep. 51 (for 1897) 1899. 1:175-79.
- Merrill. Quaternary Fossils. Mus. bul. 19. 1898. p.178-79. *Same*, Mus. rep. 51 (for 1897) 1899. 1:178-79.
- Vanuxem. Quaternary Deposits. Geol. N. Y. pt3. 1842. p.212-34, 270.
- See also* Pleistocene.
- Quebec group**. Hall. Note upon the Trilobites of the Shales of the Quebec Group in the Town of Georgia, Vt. Mus. rep. 13 (for 1859) 1860. p.113-19. illus.; 15 (for 1861) 1862. p. 114, 196.
- Queens, Borough of**. Woodworth. Pleistocene Geology of Portions of Nassau County and Borough of Queens. Mus. bul. 48. 1901. p.617-64. pl. (phot.) maps. *Same*, Mus. rep. 54 (for 1900) 1902. 4:617-64. pl. (phot.) maps.
- Sketch map of a part of Long Island, 22.5x18.5cm.

- Queens county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.88.
 Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.567-68.
 (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:567-68.
 ——— Ent. rep. 16 (for 1900) 1901. p. 1017. (Mus. bul. 36). *Same*,
 Mus. rep. 54 (for 1900) 1902. 2:1017.
 ——— Ent. rep. 17 (for 1901) 1902. p.791-92. (Mus. bul. 53).
 ——— Ent. rep. 18 (for 1902). p.150. *In press*.
 Mather. Economic Geology. Geol. rep. 1st dist. (for 1837) 1838. p.122-42.
 Mather. Beaches, Spits, Bars, etc. Geol. N. Y. pt.1. 1843. p.27-30.
 Ries. Brick Yards. Mus. bul. 12. 1895. p.214-15, 242. *Same*, Mus. rep.
 48 (for 1894) 1895. 1:214-15, 242 (2d paging).
 ——— Mus. bul. 35. 1900. p.733-34. *Same*, Mus. rep. 54 (for 1900)
 1902. 2:733-34.
See also Long Island.
- Quicklime.** Bishop. Quicklime of Erie County. Geol. rep. 15 (for 1895)
 1897. p.341-42. *Same*, Mus. rep. 49 (for 1895) 1898. 2:341-42.
 Hall. Quicklime. Geol. rep. 4th dist. (for 1837) 1838. p.323, 342, 355, 368.
 Geol. N. Y. pt.4. 1843. p.420, 431, 438, 447.
 Luther. Quicklime Producers in Onondaga County. Geol. rep. 15 (for
 1895) 1897. p.272-73. *Same*, Mus. rep. 49 (for 1895) 1898. 2:272-73.
 Mather. Lime and Hydraulic Cement. Geol. N. Y. pt.1. 1843. p.328-30.
- Ranunculus.** Beck & Tracy. Note Respecting the *Ranunculus lacustris*.
 Alb. Inst. Trans. 1830. 1:148-49.
- Realgar.** Whitlock. Realgar. Mus. bul. 58. 1902. p.51.
- Receptaculitidae,** *see* Spongiae.
- Red copper ore,** *see* Cuprite.
- Red hematite,** *see* Hematite.
- Red marl and sandstone.** Hall. Red Marl and Sandstone. Geol. rep. 4th
 dist. (for 1837) 1838. p.294-97.
See also Medina sandstone.
- Red oxid of iron,** *see* Hematite.
- Red sandstone, new,** *see* New red sandstone.
- Red sandstone, old,** *see* Old red sandstone.
- Red sandstone of Niagara.** aConrad. Red or Variegated Sandstone of
 Niagara River; Organic Remains; Mineral Character. Geol. rep. 3d
 dist. (for 1836) 1837. p.166-71 (ed. 2, p.168-73).
 Conrad. Niagara Sandstone. Pal. rep. (for 1838) 1839. p.63; (for 1839)
 1840. p.201.
See also Medina sandstone.
- Red sandstone of Oswego,** *see* Oswego sandstone.
- Red shale.** Emmons. Red Shale. Ag. N. Y. 1846. 1:154-55.
 Fitch. Red Slate of Washington County. Ag. Soc. Trans. 9 (for 1849)
 1850. p.834-36.
 Hall. Red Shale. Geol. N. Y. pt.4. 1843. p.119-20.
 Mather. Red Slate. Geol. rep. 1st dist. (for 1840) 1841. p.96.
 Mather. Pyritous Strata and Red Shales and Grit. Geol. N. Y. pt.1.
 1843. p.353-55.
 Vanuxem. Red Shale. Geol. rep. 3d dist. (for 1837) 1838. p.270, 284; (for
 1838) 1839. p.249-51. Geol. N. Y. pt.3. 1842. p.96-97, 278, 286.
See also Onondaga salt group; Salina group.
- Reigen Collection of Mazatlan Mollusca.** Mus. rep. 13 (for 1859) 1860.
 p.21-36.
- Rensselaer county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.88-89.
 Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.568.

Rensselaer county (*continued*)

- (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:568.
- — — Ent. rep. 16 (for 1900) 1901. p.1018. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1018.
- — — Ent. rep. 17 (for 1901) 1902. p.792. (Mus. bul. 53).
- — — Ent. rep. 18 (for 1902). p.150. *In press*.
- Mather. Geological Phenomena and Resources. Geol. rep. 1st dist. (for 1840) 1841. p.63-112.
- Mather. Hudson River Group. Geol. N. Y. pt1. 1843. p.382-84.
- Mather. Dip and Strike of Rocks. Geol. N. Y. pt1. 1843. p.615.
- Ries. Brick Yards. Mus. bul. 12. 1895. p.192-93, 194, 244. *Same*, Mus. rep. 48 (for 1894) 1895. 1:192-93, 194, 244 (2d paging).
- — — Mus. bul. 35. 1900. p.707, 708, 709. *Same*, Mus. rep. 54 (for 1900) 1902. 2:707, 708, 709.
- Ries. Limestones. Geol. rep. 17 (for 1897) 1899. p.452. *Same*, Mus. rep. 51 (for 1897) 1899. 2:452.
- — — *revised*. Mus. bul. 44. 1901. p.811-12. *Same*, Mus. rep. 54 (for 1900) 1902. 3:811-12.
- Ruedemann. Hudson River Beds near Albany and their Taxonomic Equivalents. Mus. bul. 42. 1901. p.485-596. 2pl. map. *Same*, Mus. rep. 54 (for 1900) 1902. 3:485-596. 2pl. map.
- Stratigraphic map showing the subdivisions of the Hudson river beds in parts of Albany and Rensselaer counties, 51.5x24.5cm.
- Ruedemann. Trenton Conglomerate of Rysedorph Hill, Rensselaer Co. N. Y. and its Fauna. Mus. bul. 49. 1901. p.3-114. 7pl.
- Ruedemann. Graptolite (Levis) Facies of the Beekmantown Formation in Rensselaer County, N. Y. Mus. bul. 52. 1902. p.246-75.
- Ruedemann. Cambric Dictyonema Fauna in the Slate Belt of Eastern New York. Pal. rep. (for 1902). *In press*.
- Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.54; 10. 1890. p.259.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.394. *Same*, Mus. rep. 48 (for 1894) 1895. 1:394 (2d paging).
- Rensselaerite**. Beck. Pyroxenic Steatite. Min. rep. (for 1839) 1840. p.108-9. Min. N. Y. 1842. p.297.
- Emmons. Hemi-prismatic Tabular Spar, Rensselaerite. Geol. rep. 2d dist. (for 1836) 1837. p.153. (ed. 2. p.155); (for 1840) 1841. p.135.
- Emmons. Rensselaerite. Geol. N. Y. pt2. 1842. p.72-74, 350-52, 375-76.
- Vanuxem. Rensselaerite. Geol. N. Y. pt3. 1842. p.20.
- See also* Pyralloite.
- Reptiles**. Baird. On the Serpents of New York, with notice of a species not hitherto included in the fauna of the State. Mus. rep. 7 (for 1853) 1854. p.95-124. 2pl.
- Catalogues and Additions. Mus. rep. 2, p.23; 3 *rev. ed.*, p.23, 27; 4, p.23; 5, p.19, 23; 6, p.21-22; 7, p.24-26; 8, p.19; 9, p.13-15; 13, p.13; 22, p.14; 24, p.19; 25, p.17; 46, p.21-22; 53, 1:169.
- For dates of Mus. rep. *see* List of publications, p.241.
- De Kay. Reptiles. Assembly doc. 1840, no.50, p.11, 26. Zool. N. Y. 1842. v.3, pt3, p.1-58. (v.3, pt3, text; v.4, plates).
- Eckel. Serpents of Northeastern United States. Mus. bul. 51. 1902. p.355-88.
- Green. Reclamation of Salamanders. Alb. Inst. Trans. 1830. 1:150-51.
- List of Deficiencies in the Reptiles. Mus. rep. 17 (for 1863) 1864. p.14.
- Paulmier. Lizards, Tortoises and Batrachians of New York. Mus. bul. 51. 1902. p.389-409.
- Rhagium, ribbed**. Felt, Ribbed Rhagium. Forest, Fish and Game Com. rep. 7 (for 1901). *In press*.

- Rhizopoda.** De Tarr. List of Rhizopoda found in the Vicinity of Albany, N. Y. Mus. rep. 35 (for 1881) 1884. p.165-67.
- Rhodochrosite.** Whitlock. Rhodochrosite. Mus. bul. 58. 1902. p.83.
- Rhodonite.** Beck. Manganese Spar. Min. N. Y. 1842. p.406-7.
Whitlock. Rhodonite. Mus. bul. 58. 1902. p.94.
- Richmond beds.** Clarke & Schuchert. Richmond beds. *See* New York series.
- Richmond county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.89-90.
Mather. Economic Geology. Geol. rep. 1st. dist. (for 1837) 1838. p.122-42.
Mather. Beaches, Spits, Bars, etc. Geol. N. Y. pt1. 1843. p.27-30.
Mather. Boulders and Drift. Geol. N. Y. pt1. 1843. p.177-78.
Mather. Serpentine Rocks. Geol. N. Y. pt1. 1843. p.283-85.
Mather. Staten Island Ore Beds. Geol. N. Y. pt1. 1843. p.489-90.
Mather. Geological Map of Long and Staten Islands, with the Environs: of New York. 129x56.5 cm. Geol. N. Y. pt1. 1843. pl.1.
- Ries.** Staten Island Clays. Mus. bul. 12. 1895. p.133-36. *Same*, Mus. rep. 48 (for 1894) 1895. 1:133-36 (2d paging).
— — — *revised*. Mus. bul. 35. 1900. p.607-11. *Same*, Mus. rep. 54 (for 1900) 1902. 2:607-11.
— — — *abridged* by Merrill. Mus. bul. 15. 1895. p.501. *Same*, Mus. rep. 48 (for 1894) 1895. 1:501 (2d paging).
— — — *abridged* by Merrill. Mus. bul. 19. 1898. p.213. *Same*, Mus. rep. 51 (for 1897) 1899. 1:213.
- Ries.** Brick Yards. Mus. bul. 12. 1895. p.220-21. *Same*, Mus. rep. 48: (for 1894) 1895. 1:220-21 (2d paging).
— — — Mus. bul. 35. 1900. p.742-43. *Same*, Mus. rep. 54 (for 1900) 1902. 2:742-43.
- Smock.** Limonite of Staten Island. Mus. bul. 7. 1889. p.61-62.
— — — *revised* by Merrill. Mus. bul. 15. 1895. p.541. *Same*, Mus. rep. 48 (for 1894) 1895. 1:541 (2d paging).
— — — *revised* by Merrill. Mus. bul. 19. 1898. p.221. *Same*, Mus. rep. 51 (for 1897) 1899. 1:221.
- Ridge road,** *See* Lake ridge
- Rivers.** Hall. Modern Action of Rivers; Freezing of Water in River Channels. Geol. N. Y. pt 4. 1843. p.368-76, 662-63.
- Road metal.** Bishop. Road Metal of Erie County. Geol. rep. 15 (for 1895) 1897. p.336-37. *Same*, Mus. rep. 49 (for 1895) 1898. 2:336-37.
- Burr.** Tests of Road Metal. Geol. rep. 20 (for 1900) 1902. p.14-20. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r14-20.
Tests made for state engineer, p.20-22.
- Cushing.** Road Metal of Franklin County. Geol. rep. 18 (for 1898) 1899. p.127. *Same*, Mus. rep. 52 (for 1898) 1900. 2:127.
- Lincoln.** Road Metal of Seneca County. Geol. rep. 14 (for 1894) 1895. p.116-20. *Same*, Mus. rep. 48 (for 1894) 1895. 2:116-20.
- Merrill.** Road Materials and Road Building in New York. Mus. bul. 17. 1897. p.87-134. 14pl. (phot.) 2maps. *Same*, Mus. rep. 50 (for 1896) 1898. 1:87-134 (2d paging). 14pl. (phot.) 2maps.
Including directory of quarrymen.
Map of New York showing distribution of rocks most useful for road metal, 34x44cm; map showing location of quarries, 68x92cm.
- Merrill.** Road Metal. Mus. bul. 19. 1898. p.204-8. *Same*, Mus. rep. 51 (for 1897) 1899. 1:204-8.
- Nason.** Road Metal in Albany County. Geol. rep. 13 (for 1893) 1894. p.279-81, 287. *Same*, Mus. rep. 47 (for 1893) 1894. p.473-75, 481.
- Nason.** Road Metal of Ulster County. Geol. rep. 13 (for 1893) 1894. p.394-96. *Same*, Mus. rep. 47 (for 1893) 1894. p.588-90.

Road metal (*continued*)

- Ries. Road Metal, *revised* by Merrill. Mus. bul. 15. 1895. p.448-50. *Same*, Mus. bul. 48 (for 1894) 1895. 1:448-50 (2d paging).
- Ries. Road Materials of Orange County. Geol. rep. 15. (for 1895) 1897. p.466-68. *Same*, Mus. rep. 49 (for 1895) 1898. 2:466-68.
- Ries. Uses of Clay or Shale. Mus. bul. 35. 1900. p.853. *Same*, Mus. rep. 54 (for 1900) 1902. 2:853.
See also Street pavements.
- Rochester.** Smock. Stone Construction in. Mus. bul. 10. 1890. p.343-46.
- Rochester shale (Niagara).** Clarke, Ruedemann & Luther. Rochester Shale on Brockport and Medina Quadrangles. Mus. bul. 52. 1902. p.517, 520, 522.
- Clarke & Schuchert. Rochester shale. *See* New York series.
- Conrad. Rochester Shales. Pal. rep. (for 1838) 1839. p.63; (for 1840) 1841. p.31.
- Grabau. Rochester Shale of Niagara District. Mus. bul. 45. 1901. p.102-5. *Same*, Mus. rep. 54 (for 1900) 1902. 4:102-5.
- ^aHall. Rochester Shale. Geol. rep. 4th dist. (for 1838) 1839. p.289.
See also Niagara shale.
- Rockland county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.90-92.
- Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.568. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:568.
- — — Ent. rep. 16 (for 1900) 1901. p.1018. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1018.
- — — Ent. rep. 17 (for 1901) 1902. p.792. (Mus. bul. 53).
- — — Ent. rep. 18 (for 1902). p.150-51. *In press*.
- Kümmel. The Newark or New Red Sandstone Rocks of Rockland county, N. Y. Geol. rep. 18 (for 1898) 1899. p.9-50. pl. (phot.) map. *Same*, Mus. rep. 52 (for 1898) 1900. 2:9-50. pl. (phot.) map.
Map showing Triassic rocks of Rockland county, 45x44cm.
- Mather. Economic Geology. Geol. rep. 1st dist. (for 1838) 1839. p.114-34.
- Mather. Trappean Division. Geol. N. Y. pt1. 1843. p.278-85.
- Mather. Red Sandstone Division. Geol. N. Y. pt1. 1843. p.285-94.
- Mather. Metamorphic Limestones. Geol. N. Y. pt1. 1843. p.476-80.
- Mather. Primary Rocks. Geol. N. Y. pt1. 1843. p.534-41.
- Mather. Magnetic Oxide of Iron. Geol. N. Y. pt1. 1843. p.565-75.
- Mather. Dip and Strike of Rocks. Geol. N. Y. pt1. 1843. p.616-17.
- Ries. Brick Yards. Mus. bul. 12. 1895. p.179-82, 242-45. *Same*, Mus. rep. 48 (for 1894) 1895. 1:179-82, 242-45 (2d paging).
- — — Mus. bul. 35. 1900. p.693-95. *Same*, Mus. rep. 54 (for 1900) 1902. 2:693-95.
- Ries. Limestones. Geol. rep. 17 (for 1897) 1899. p.450-51. *Same*, Mus. rep. 51 (for 1897) 1899. 2:450-51.
- — — *revised*. Mus. bul. 44. 1901. p.808-10. *Same*, Mus. rep. 54 (for 1900) 1902. 3:808-10.
- Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.29-30, 92-93; 10. 1890. p.230, 231, 278.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.377, 419. *Same*, Mus. rep. 48 (for 1894) 1895. 1:377, 419 (2d paging).
- Rocks.** Merrill. Rocks. Mus. bul. 19. 1898. p.123-26. *Same*, Mus. rep. 51 (for 1897) 1899. 1:123-26.
See also names of rock formations.

- Rondout valley.** Darton. Rondout Valley from above High Falls to Ellen-ville. Geol. rep. 13 (for 1893) 1894. p.358-62. *Same*, Mus. rep. 47 (for 1893) 1894. p.552-56.
- Rondout waterlime.** aClarke & Schuchert. Rondout Waterlime. Mus. mem. 3. 1900. p.11. *Same*, Mus. rep. 53 (for 1899) 1901. 2:11.
- Grabau. Rondout Waterlime of Niagara Region. Mus. bul. 45. 1901. p.115-16. *Same*, Mus. rep. 54 (for 1900) 1902. 4:115-16.
- Roofing slates.** Hall. Note on some Obscure Organisms in the Roofing Slates of Washington County, N. Y. Mus. rep. 39 (for 1885) 1886. p.160, pl.11.
- Mather. Roofing Slate. Geol. rep. 1st dist. (for 1840) 1841. p.94-95. Geol. N. Y. pt1. 1843. p.419-21.
- Nevius. Roofing Slate Quarries of Washington County. Geol. rep. 19 (for 1899) 1901. pl. (phot.) p.r135-50. *Same*, Mus. rep. 53 (for 1899) 1901. pl. (phot.) 1:r135-50.
- Smock. Roofing Slate Quarries. Mus. bul. 3. 1888. p.23-24, 135-43, 146; 10. 1890. p.279-81.
- — revised by Merrill. Mus. bul. 15. 1895. p.421-23. *Same*, Mus. rep. 48 (for 1894) 1895. 1:421-23 (2d paging).
- — revised by Merrill. Mus. bul. 19. 1898. p.196. *Same*, Mus. rep. 51 (for 1897) 1899. 1:196.
- Roofing tile.** Merrill. Directory of Manufacturers. Mus. bul. 15. 1895. p.502-18. *Same*, Mus. rep. 48 (for 1894) 1895. 1:502-18 (2d paging).
- Ries. Roofing Tile. Mus. bul. 12. 1895. p.237-38. *Same*, Mus. rep. 48 (for 1894) 1895. 1:237-38 (2d paging).
- — revised. Mus. bul. 35. 1900. p.765-66. *Same*, Mus. rep. 54 (for 1900) 1902. 2:765-66.
- Ries. Directory of Manufacturers. Mus. bul. 35. 1900. p.913-25. *Same*. Mus. rep. 54 (for 1900) 1902. 2:913-25.
- Rose beetle.** Lintner. Rose Beetle. Ent. rep. 1 (for 1881) 1882. p.227-32.
- Lintner. Fuller's Rose Beetle. Ent. rep. 2 (for 1882 & 1883) 1885. p.142-44.
- Rosendale cement,** *see* Cement.
- Rossie lead mine.** Beck. Rossie Lead Mine. Min. rep. (for 1836) 1837. p.52-54 (ed. 2, p.54-56). Min. N. Y. 1842. p.48-49.
- Rugose corals,** *see* Corals.
- Russula.** Peck. Genus Russula. Mus. rep. 23 (for 1869) 1873. p.120-21.
- Rutile.** Beck. Rutile. Min. N. Y. 1842. p.428-30. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.150.
- Hunt. Rutile. Mus. rep. 21 (for 1867) 1871. p.86.
- Whitlock. Rutile. Mus. bul. 58. 1902. p.75-76.
- St Lawrence county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.92-95.
- Cushing. Boundary between the Potsdam and Pre-Cambrian Rocks North of the Adirondaacks. Geol. rep. 16 (for 1896) 1899. p.5-27. *Same*, Mus. rep. 50 (for 1896) 1899. 2:5-27.
- Cushing. Recent Geologic Work in Franklin and St Lawrence Counties. Geol. rep. 20 (for 1900) 1902. p.r23-82. map. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r23-82. map.
- Geologic map of the vicinity of Saranac lakes, 13.5x16cm.
- Emmons. Observations. Geol. rep. 2d dist. (for 1837) 1838. p.186-219.
- Emmons. Iron Ores. Geol. rep. 2d dist. (for 1839) 1840. p.311-19. Geol. N. Y. pt2. 1842. p.341-50.
- Emmons. St Lawrence County. Geol. N. Y. pt2. 1842. p.335-67.

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- Emmons. Minerals. Geol. N. Y. pt2. 1842. p.365-66.
- Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.568-69. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:568-69.
- — — Ent. rep. 16 (for 1900) 1901. p.1018-19. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1018-19.
- — — Ent. rep. 17 (for 1901) 1902. p.792-93. (Mus. bul. 53).
- Hough. Ancient Remains of Art in Jefferson and St Lawrence Counties. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.99-105. 5pl.; 4 (for 1850) 1851. p.103-9. 5pl.
- Map showing Mining District of Rossie. Geol. rep. 1837-41. v.2. Assembly doc. 1838, no.200.
- Nason. Calcites from Rossie. Mus. bul. 4. 1888. p.10-12.
- Nevius. Talc Industry of St Lawrence County, New York. Mus. rep. 51 (for 1897) 1899. 1:r119-27. pl. (phot.).
- Ries. Brick Yards. Mus. bul. 12. 1895. p.195-97, 250. *Same*, Mus. rep. 48 (for 1894) 1895. 1:195-97, 250 (2d paging).
- — — Mus. bul. 35. 1900. p.710, 711-12. *Same*, Mus. rep. 54 (for 1900) 1902. 2:710, 711-12.
- Ries. Limestones. Geol. rep. 17 (for 1897) 1899. p.453-55. *Same*, Mus. rep. 51 (for 1897) 1899. 2:453-55.
- — — *revised*. Mus. bul. 44. 1901. p.812-15. *Same*, Mus. rep. 54 (for 1900) 1902. 3:812-15.
- Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.42-44, 46-51, 119-20; 10. 1890. p.236-37, 248-49, 256-58.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.392-94, 431-32, 441-42. *Same*, Mus. rep. 48 (for 1894) 1895. 1:392-94, 431-32, 441-42 (2d paging).
- Smock. Hematite Ores. Mus. bul. 7. 1889. p.10-11, 44-48.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.537-38. *Same*, Mus. rep. 48 (for 1894) 1895. 1:537-38 (2d paging).
- — — *revised* by Merrill. Mus. bul. 19. 1898. p.219. *Same*, Mus. rep. 51 (for 1897) 1899. 1:219.
- Smyth. Report on a Preliminary Examination of the General and Economic Geology of Four Townships in St Lawrence and Jefferson Counties. Geol. rep. 13 (for 1893) 1894. p.491-515. *Same*, Mus. rep. 47 (for 1893) 1894. p.685-709.
- Smyth. Talc Industry. Geol. rep. 15 (for 1895) 1897. p.20, 661-71. *Same*, Mus. rep. 49 (for 1895) 1898. 2:20, 661-71.
- Smyth. Crystalline Rocks. Geol. rep. 15 (for 1895) 1897. p.20-21, 477-97. *Same*, Mus. rep. 49 (for 1895) 1898. 2:20-21, 477-97.
- Smyth. Geology of the Crystalline Rocks in the Vicinity of the St Lawrence River. Geol. rep. 19 (for 1899) 1901. p.r83-104. pl. (phot.) map. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r83-104. pl. (phot.) map. Geologic map of portions of St Lawrence and Jefferson counties, 26.5x16.5cm.
- See also* Adirondacks.
- St Lawrence river.** Emmons. Falling of the St Lawrence. Geol. rep. 2d dist. (for 1836) 1837. p.123 (ed.2, p.125).
- St Lawrence valley.** Emmons. St Lawrence Valley. Geol. N. Y. pt2, 1842. p.15-17.
- Saliferous sandrock.** Conrad. Saliferous Sandrock of Eaton. Pal. rep. (for 1837) 1838. p.113.
- See also* Medina sandstone.
- Saliferous system.** Conrad. New Red Sandstone or Saliferous System. Pal. rep. (for 1840) 1841. p.43-44.

- ^aSalina group (Onondaga salt group).** Bishop. Salina Group of Erie County. Geol. rep. 15 (for 1895) 1897. p.311-12, 390. *Same*, Mus. rep. 49 (for 1895) 1898. 2:311-12, 390.
- Clarke, Ruedemann & Luther. Salina Beds on Brockport and Medina Quadrangles. Mus. bul. 52. 1902. p.518-19.
- Clarke & Schuchert. Salina Beds. *See* New York series.
- Grabau. Salina Beds of Niagara Region. Mus. bul. 45. 1901. p.114-15. *Same*, Mus. rep. 54 (for 1900) 1902. 4:114-15.
- Lincoln. Salina Group in Seneca County. Geol. rep. 14 (for 1894) 1895. p.84-87, 102. *Same*, Mus. rep. 48 (for 1894) 1895. 2:84-87, 102.
- Luther. Salina or Salt Group. Geol. rep. 16 (for 1896) 1899. p.205-11. *Same*, Mus. rep. 50 (for 1896) 1899. 2:205-11.
- Luther. Salina Group in Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p.48-53. Mus. rep. 47 (for 1893) 1894. p.242-47.
- Luther. Salina Group of Onondaga County. Geol. rep. 15 (for 1895) 1897. p.250-67. *Same*, Mus. rep. 49 (for 1895) 1898. 2:250-67.
- Merrill. Geology of the Salt and Gypsum. Mus. bul. 11. 1893. p.22-25.
 ——— abstract. Mus. bul. 15. 1895. p.545-48. *Same*, Mus. rep. 48 (for 1894) 1895. 1:545-48 (2d paging).
- Merrill. Salina Group, or Onondaga Salt Group. Mus. bul. 19. 1898. p.154-56. *Same*, Mus. rep. 51 (for 1897) 1899. 1:154-56.
- Ries. Salina Shales. Geol. rep. 15 (for 1895) 1897. p.690-92. *Same*, Mus. rep. 49 (for 1895) 1898. 2:690-92.
 ——— Mus. bul. 35. 1900. p.829-30. *Same*, Mus. rep. 54 (for 1900) 1902. 2:829-30.
- Sarle. A New Eurypterid Fauna from the Base of the Salina of Western New York. Pal. rep. (for 1902). *In press*.
See also Onondaga salt group.
- Salina waterlime**, *see* Waterlime.
- Salines**, *see* Salt.
- Salmon river sandstones.** ^bConrad. Gray Sandstones and Shales of Salmon River. Geol. rep. 3d dist. (for 1836) 1837. p.164-66 (ed. 2, p.166-68). Conrad. Salmon River Sandstones. Pal. rep. (for 1837) 1838. p.113; (for 1838) 1839. p.63; (for 1839) 1840. p.201; (for 1840) 1841. p.31. Vanuxem. Salmon River Sandstone. Geol. rep. 3d dist. (for 1839) 1840. p.374. Geol. N. Y. pt3. 1842. p.64.
See also Lorraine beds; Oneida conglomerate.
- Salt.** Beck. Brine Springs or Salines of the State of New York. Min. rep. (for 1837) 1838. p.10-40. Min. N. Y. 1842. p.99-127. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.119-23.
 Beck. Brine Springs of Onondaga. Min. rep. (for 1837) 1838. p.24-36. (for 1840) 1841. p.18-23. Min. N. Y. 1842. p.103-8, 110.
 Beck. Muriate of Soda, or Common Salt. Min. rep. (for 1838) 1839. p.17. Min. N. Y. 1842. p.198-200. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.119-23.
 Beck. Montezuma Brine. Min. rep. (for 1840) 1841. p.23. Min. N. Y. 1842. p.108-10.
 Beck. Manufacture. Min. N. Y. 1842. p.111-18.
 Beck. Origin of Brine Springs. Min. N. Y. 1842. p.119-27.
 Bishop. Salt Wells of Western New York. Geol. rep. 5 (for 1885) 1886. p.12-47.
 Bishop. Salt Industry of Central New York. Mus. rep. 45 (for 1891) 1892. p.53-61.

^aTerm introduced by Dana. Manual of Geology. *rev. ed.* 1864, p.246.

^bFirst use of term.

Salt (*continued*)

- Bishop. Rock-salt of Erie County. Geol. rep. 15 (for 1895) 1897. p.391-92.
Same, Mus. rep. 49 (for 1895) 1898. 2:391-92.
- Conrad. Brine Springs. Geol. rep. 3d dist. (for 1836) 1837. p.172-76 (ed.2, p.174-78).
- Cook. On the Nature of the Specimens of Salt presented by him, with an analysis. Mus. rep. 7 (for 1853) 1854. p.79-93.
- Geddes. Salt Springs of Onondaga County. Ag. Soc. Trans. 19 (for 1859) 1860. p.266-86.
- Hall. Saline Efflorescences. Geol. rep. 4th dist. (for 1838) 1839. p.336-37; (for 1839) 1840. p.450.
- Hall. Brine Springs or Salines. Geol. N. Y. pt4. 1843. p.44-45, 134-36, 314-15, 664.
- Hall. Salt Springs of Monroe County. Geol. rep. 4th dist. (for 1837) 1838. p.336. Geol. N. Y. pt4. 1843. p.427-28.
- Hall. Salt Springs in Niagara County. Geol. rep. 4th dist. (for 1837) 1838. p.366. Geol. N. Y. pt4. 1843. p.446.
- Hall. Salt Springs in Orleans County. Geol. rep. 4th dist. (for 1837) 1838. p.352-53. Geol. N. Y. pt4. 1843. p.436.
- Hall. Salt Springs of Wayne County. Geol. rep. 4th dist. (for 1837) 1838. p.317-18. Geol. N. Y. pt4. 1843. p.417-18.
- Luther. Historical Epitome of the Salt Industry. Geol. rep. 15 (for 1895) 1897. p.251-63. *Same*, Mus. rep. 49 (for 1895) 1898. 2:251-63.
- Luther. Geological Map of Salt District. Geol. rep. 16 (for 1896) 1899. facing p.172. *Same*, Mus. rep. 50 (for 1896) 1899. v.2, facing p.172.
- Luther. Brine Springs and Salt Wells of the State of New York, and the Geology of the Salt District. Geol. rep. 16 (for 1896) 1899. p.171-226. pl. (phot.) map. *Same*, Mus. rep. 50 (for 1896) 1899. 2:171-226. pl. (phot.) map.
 Geologic map of the salt district, 45x24 cm.
- Mather. Manufacture. Geol. rep. 1st. dist. (for 1836) 1837. p.87 (ed. 2, p.89).
- Mather. Brine Springs, Licks, etc. Geol. rep. 1st dist. (for 1839) 1840. p.233-35.
- Mather. Sulphate of Magnesia, Muriate of Soda and Muriate of Lime. Geol. N. Y. pt1. 1843. p.86-88.
- Merrill. Salt and Gypsum Industries of New York. Mus. bul. 11. 1893. 89p. 12pl. (phot.) 2maps. 11tab.
 Map of New York showing salt wells and mines and gypsum quarries, 38x55cm.
 Map of western salt field of New York, 52.5x32.5cm.
 Chart of well sections.
- abstract. Mus. bul. 15. 1895. p.545-51. *Same*, Mus. rep. 48 (for 1894) 1895. 1:545-51 (2d paging).
- Merrill. Producers of Salt in New York State. Mus. bul. 15. 1895. p.549-50. *Same*, Mus. rep. 48 (for 1894) 1895. 1:549-50 (2d paging).
- Merrill. Salt. Mus. bul. 19. 1898. p.223-24. *Same*, Mus. rep. 51 (for 1897) 1899. 1:223-24.
- Vanuxem. Montezuma Brine Springs. Geol. rep. 3d dist. (for 1838) 1839. p.270-72.
- Vanuxem. Salt Wells or Borings of Onondaga. Geol. rep. 3d dist. (for 1838) 1839. p.262-70, 284-85; (for 1840) 1841. p.139-47.
- Vanuxem. Hopper Shaped Cavities in Onondaga Salt Group; Rock Salt. Geol. N. Y. pt3. 1842. p.102, 280-83, 287.
- Vanuxem. Salt-boring in Broome County. Geol. N. Y. pt3. 1842. p.295-96.
- Whitlock. Halite (rock salt). Mus. bul. 58. 1902. p.63-64.
- See also* Livonia salt shaft; Onondaga salt group.

- Salt marshes.** Mather. Salt Marshes. Geol. rep. 1st dist. (for 1836) 1837. p.85-86 (ed. 2, p.87-88); (for 1837) 1838. p.123-25; (for 1838) 1839. p.74, 118; (for 1839) 1840. p.215-24. Geol. N. Y. pt1. 1842. p.17-19, 234.
- San José scale insect.** Felt. San José Scale Insect. Ent. rep. 16 (for 1900) 1901. p.967-88. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. p.967-88.
- Mus. bul. 46. 1901. p.304-23, 336-42. *Same*, Mus. rep. 54 (for 1900) 1902. 4:304-23, 336-42.
- Ent. rep. 14 (for 1901) 1902. p.761-75. (Mus. bul. 53).
- Ent. rep. 18 (for 1902) p.126-43. *In press*.
- Lintner. The San José Scale, and some Other Destructive Scale Insects of New York State. Mus. bul. 13. 1895. p.263-305. 7pl. (phot.) *Same*, Mus. rep. 48 (for 1894) 1895. 1:263-305 (2d paging). 7pl. (phot.)
- Lintner. San Jose Scale Insect. Ent. rep. 11 (for 1895) 1896. p.200-33. *Same*, Mus. rep. 49 (for 1895) 1897. 1:200-33.
- A reprint with additions of preceding article.
- Sand ridges.** Lincoln. Sand Ridges of Seneca County. Geol. rep. 14 (for 1894) 1895. p.71-72. *Same*, Mus. rep. 48 (for 1894) 1895. 2:71-72.
- Sands.** Bishop. Sands and Gravel of Erie County. Geol. rep. 15 (for 1895) 1897. p.345. *Same*, Mus. rep. 49 (for 1895) 1898. 2:345.
- Emmons. Siliceous Sand Deposits. Geol. rep. 2d dist. (for 1836) 1837. p.121-22 (ed. 2, p.123-24).
- Fitch. Sandy Soils of Washington County. Ag. Soc. Trans. 9 (for 1849) 1850. p.878-82.
- Hall. Discoloration of Sands and Clays from the Percolation of Water. Geol. N. Y. pt4. 1843. p.361-62.
- Hall. Sands of Monroe County. Geol. rep. 4th dist. (for 1837) 1838. p.333. Geol. N. Y. pt4. 1843. p.426.
- Hall. Sand and Gravel of Wayne County. Geol. rep. 4th dist. (for 1837) 1838. p.319.
- Lincoln. Sand of Seneca County. Geol. rep. 14 (for 1894) 1895. p.112. *Same*, Mus. rep. 48 (for 1894) 1895. 2:112.
- Luther. Sands of Onondaga County. Geol. rep. 15 (for 1895) 1897. p.287-88. *Same*, Mus. rep. 49 (for 1895) 1898. 2:287-88.
- Mather. Sands and Clays of Long Island and Staten Island. Geol. rep. 1st dist. (for 1836) 1837, p.83-85 (ed. 2, p.85-87); (for 1837) 1838. p.136-37.
- Mather. Sand, Clay and Drift. Geol. rep. 1st dist. (for 1840) 1841. p.71-75.
- Mather. Sand-dunes. Geol. N. Y. pt1. 1843. p.30-32.
- Mather. Drifting Sands. Geol. N. Y. pt1. 1843. p.233-34.
- Nason. Gravels, Sands and Clays of Albany County. Geol. rep. 13 (for 1893) 1894. p.266-77, 286. *Same*, Mus. rep. 47 (for 1893) 1894. p.460-71, 480.
- Vanuxem. Sand. Geol. N. Y. pt3. 1842. p.220.
- See also Pleistocene.*
- Sandstones.** Darton. White Conglomeratic Sandstone; Red Conglomeratic Sandstones of Ulster County. Geol. rep. 13 (for 1893) 1894. p.297-98. *Same*, Mus. rep. 47 (for 1893) 1894. p.491-92.
- Dickinson. Bluestones and other Sandstones in the Upper Devonian in New York State. Mus. bul. 61. *In press*.
- Eckel. Quarries in Southeastern New York. Geol. rep. 20 (for 1900) 1902. p.167-69. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r167-69.
- Hall. Sandstones or Freestones and their Varieties; their Geological Position and Geographical Distribution. Mus. rep. 39 (for 1885) 1886. p.196-99.

Sandstones (*continued*)

- Lincoln. Sandstone of Seneca County. Geol. rep. 14 (for 1894) 1895. p.112-15. *Same*, Mus. rep. 48 (for 1894) 1895. 2:112-15.
- Mather. Alluvial Sandstones and Conglomerates. Geol. rep. 1st dist. (for 1836) 1837. p.86-87 (ed. 2, p.88-89). Geol. N. Y. pt.1. 1843. p.122-23, 236.
- Merrill. Directory of Quarrymen. Mus. bul. 15. 1895. p.452-57. *Same*, Mus. rep. 48 (for 1894) 1895. 1:452-57 (2d paging).
- Merrill. Road Materials. Mus. bul. 17. 1897. p.105. *Same*, Mus. r p. 50 (for 1896) 1898. 1:105 (2d paging).
- — Mus. bul. 19. 1898. p.205. *Same*, Mus. rep. 51 (for 1897) 1899. 1:205.
- Smock. Sandstones and Quartzites. Mus. bul. 3. 1888. p.14-19; 10. 1890. p.214-26.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.381-91. *Same*, Mus. rep. 48 (for 1894) 1895. 1:381-91 (2d paging).
- — *revised* by Merrill. Mus. bul. 19. 1898. p. 185-95. *Same*, Mus. rep. 51 (for 1897) 1899. 1:185-95.
- Smock. Quarries. Mus. bul. 3. 1888. p.45-93; 10. 1890. p.255-78.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.391-419. *Same*, Mus. rep. 48 (for 1894) 1895. 1:391-419 (2d paging).
- Smock. Microscopic Structure. Mus. bul. 10. 1890. p. 361-63.
- Smock. Tests; Durability. Causes of Decay. Mus. bul. 10. 1890. p.364-89.
- Vanuxem. Sandstone and Shale. Geol. rep. 4th dist. (for 1836) 1837. p.190-91 (ed. 2, p.192-93).
- See also* Bluestone; Calciferous sandrock; New red sandstone; Quartzite.
- Saranac lakes.** Cushing. Recent Geologic Work in Franklin and St Lawrence Counties. Geol. rep. 20 (for 1900) 1902. p.r25-82. map. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r25-82. map.
Geologic map of the vicinity of Saranac lakes, 13.5x16cm.
- See also* Adirondacks.
- Saratoga county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.95-96.
- Darton. Geology of the Mohawk Valley in Herkimer, Fulton, Montgomery and Saratoga Counties. Geol. rep. 13 (for 1893) 1894. p.407-29. pl. (phot.) *Same*, Mus. rep. 47 (for 1893) 1894. p.601-23. pl. (phot.)
- Darton. Faulted Region. Geol. rep. 14 (for 1894) 1895. p.11-12, 31-53. pl. (phot.) map. *Same*, Mus. rep. 48 (for 1894) 1895. 2:11-12, 31-53. pl. (phot.) map.
- Preliminary geologic map of portions of Herkimer, Fulton, Montgomery, Saratoga and adjacent counties (uncolored) 23.5x16.5cm.
- Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.569-70. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:569-70.
- — Ent. rep. 16 (for 1900) 1901. p.1019-20. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1019-20.
- — Ent. rep. 17 (for 1901) 1902. p.793. (Mus. bul. 53).
- Kemp & Hill. Precambrian Formations. Geol. rep. 19 (for 1899) 1901. p.r17-35. pl. (phot.) maps. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r17-35. pl. (phot.) maps.
Small, uncolored geologic maps.
Map of the "Noses" (colored).
- Mather. Geological Phenomena and Resources. Geol. rep. 1st dist. (for 1840) 1841. p.63-112.
- Mather. Hudson River Group. Geol. N. Y. pt.1. 1843. p.375-80.
- Mather. Metamorphic Quartz Rocks. Geol. N. Y. pt.1. 1843. p.487.
- Mather. Primary Rocks. Geol. N. Y. pt.1. 1843. p.550-58.

Saratoga county (*continued*)

- Mather. Magnetic Iron Ore. Geol. N. Y. pt1. 1843. p.575-76.
 Mather. Dip and Strike of Rocks. Geol. N. Y. pt1. 1843. p.621.
 Prosser. Notes on the Stratigraphy of the Mohawk Valley and Saratoga County. Mus. bul. 34. 1900. p.469-82. 6pl. (phot.) map. *Same*, Mus. rep. 54 (for 1900) 1902. 1:469-82. 6pl. (phot.) map.
 Geologic map of Amsterdam quadrangle, 44x32.5cm.
 Ries. Brick Yards. Mus. bul. 12. 1895. p.193-94, 246. *Same*, Mus. rep. 48 (for 1894) 1895. 1:193-94, 246 (2d paging).
 ——— Mus. bul. 35. 1900. p.708-9. *Same*, Mus. rep. 54 (for 1900) 1902. 2:708-9.
 Ries. Limestones. Geol. rep. 17 (for 1897) 1899. p.452-53. *Same*, Mus. rep. 51 (for 1897) 1899. 2:452-53.
 ——— *revised*. Mus. bul. 44. 1901. p.815-16. *Same*, Mus. rep. 54 (for 1900) 1902. 3:815-16.
 Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.32-33, 98-99; 10. 1890. p.232, 240.
 ——— *revised* by Merrill. Mus. bul. 15. 1895. p.378, 434. *Same*, Mus. rep. 48 (for 1894) 1895. 1:378, 434 (2d paging).
Saratoga Springs. Beck. Saratoga Springs. Min. rep. (for 1837) 1838. p.49-50. Min. N. Y. 1842. p.134-36. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.116-17.
 Mather. Saratoga Springs. Geol. N. Y. pt1. 1843. p.95-97.
 Peale. Saratoga Springs; analyses. Mus. bul. 15. 1895. p.566-67, 575-78. *Same*, Mus. rep. 48 (for 1894) 1895. 1:566-67, 575-78 (2d paging).
Saussurite. Beck. Saussurite. Min. N. Y. 1842. p.454.
Saw-flies, *see* Hymenoptera.
Scale insects, *see* Hemiptera, *Scale insects*.
Scallops, *see* Lamellibranchiata.
Scapolite. Beck. Scapolite. Min. N. Y. 1842. p.329-33. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.137.
 Hunt. Scapolite. Mus. rep. 21 (for 1867) 1871. p.82.
 Mather. Youngite (so called) of Amity. Scapolite? Geol. N. Y. pt1. 1843. p.513.
 Nason. Scapolite. Mus. bul. 4. 1888. p.9, 15.
See also Wernerite.
Scheelite. Whitlock. Scheelite. Mus. bul. 58. 1902. p.128.
Schenectady. Smock. Stone Construction in. Mus. bul. 10. 1890. p.331-32.
Schenectady county. Beck. Mineralogy. Min. rep. (for 1839) 1840. p.96.
 Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.570. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:570.
 ——— Ent. rep. 16 (for 1900) 1901. p.1020. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1020.
 ——— Ent. rep. 17 (for 1901) 1902. p.793. (Mus. bul. 53).
 Mather. Geological Phenomena and Resources. Geol. rep. 1st dist. (for 1840) 1841. p.63-112.
 Mather. Hudson River Group. Geol. N. Y. pt1. 1843. p.375-80.
 Mather. Dip and Strike of Rocks. Geol. N. Y. pt1. 1843. p.621.
 Ries. Brick Yards. Mus. bul. 12. 1895. p.246. *Same*, Mus. rep. 48 (for 1894) 1895. 1:246 (2d paging).
 Ries. Limestone Formations. Mus. bul. 44. 1901. p.816. *Same*, Mus. rep. 54 (for 1900) 1902. 3:816.
 Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.54-57, 105-6; 10. 1890. p.243, 259-60.

Schenectady county (*continued*)

- — — *revised* by Merrill. Mus. bul. 15. 1895. p.394-95, 437. *Same*, Mus. rep. 48 (for 1894) 1895. 1:394-95, 437 (2d paging).
- Schiller spar, *see* Bastite and Enstatite.
- Schist. Merrill. Definition. Mus. bul. 19. 1898. p.126. *Same*, Mus. rep. 51 (for 1897) 1899. 1:126.
- Schoharie county. Beck. Mineralogy. Min. rep. (for 1839) 1840. p.97-99.
- Clarke. Oriskany Fauna. Mus. mem. 3. 1900. p.77. *Same*, Mus. rep. 53 (for 1899) 1901. 2:77.
- Clarke. Agoniatite Limestone. Mus. bul. 49. 1901. p.123-24.
- Felt. Entomological Reports from. Ent. rep. 16 (for 1900) 1901. p.1020-21 (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1020-21.
- — — Ent. rep. 17 (for 1901) 1902. p.793-94. (Mus. bul. 53).
- — — Ent. rep. 18 (for 1902). p.151. *In press*.
- Hall. Fossil Trees in Schoharie County. Mus. rep. 24 (for 1870) 1872. p.15-16.
- Mather. Economical Geology. Geol. rep. 1st dist. (for 1839) 1840. p.213-58.
- Mather. Hudson River Group. Geol. N. Y. pt1. 1843. p.375-80.
- Mather. Dip and Strike of Rocks. Geol. N. Y. pt1. 1843. p.622.
- Merrill. Hudson River Bluestone Quarrymen. Mus. bul. 15. 1895. p.461. *Same*, Mus. rep. 48 (for 1894) 1895. 1:461 (2d paging).
- Prosser. Hamilton, Sherburne and Ithaca Formations. Geol. rep. 17 (for 1897) 1899. p.151-239. *Same*, Mus. rep. 51 (for 1897) 1899. 2:151-239.
- Prosser. Geologic Map of Part of. Geol. rep. 15 (for 1895) 1897. facing p.87. *Same*, Mus. rep. 49 (for 1895) 1898. v.2, facing p.87.
- Ries. Limestone Formations. Mus. bul. 44. 1901. p.816-18. *Same*, Mus. rep. 54 (for 1900) 1902. 3:816-18.
- Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.78, 120-21; 10. 1890. p.249-50.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.442-43. *Same*, Mus. rep. 48 (for 1894) 1895. 1:442-43 (2d paging).
- Schoharie grit.** Clarke & Schuchert. Schoharie Grit. *See* New York series.
- Darton. Schoharie Grit. Geol. rep. 13 (for 1893) 1894. p.208-9. *Same*, Mus. rep. 47 (for 1893) 1894. p.402-3.
- Darton. Schoharie Grit in Albany County. Geol. rep. 13 (for 1893) 1894. p.243-44. *Same*, Mus. rep. 47 (for 1893) 1894. p.437-38.
- Emmons. Schoharie Grit. Ag. N. Y. 1846. 1:174.
- Hall. Schoharie Grit. Geol. N. Y. pt4. 1843. p.151.
- Lincklaen. Schoharie Grit; Fossils. Mus. rep. 14 (for 1860) 1861. p.60.
- Mather. Schoharie Grit. Geol. N. Y. pt1. 1843. p.340.
- Mather. Fossils. Geol. N. Y. pt1. 1843. p.340.
- Merrill. Schoharie Grit. Mus. bul. 19. 1898. p.159-60. *Same*, Mus. rep. 51 (for 1897) 1899. 1:159-60.
- Smock. Sandstones. Mus. bul. 3. 1888. p.17; 10. 1890. p.22.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.387. *Same*, Mus. rep. 48 (for 1894) 1895. 1:387 (2d paging).
- — — *revised* by Merrill. Mus. bul. 19. 1898. p.191. *Same*, Mus. rep. 51 (for 1897) 1899. 1:191.
- a*Vanuxem. Schoharie Layers. Geol. rep. 3d dist. (for 1839) 1840. p.378.
- Vanuxem. Schoharie Grit. Geol. N. Y. pt3. 1842. p.131.

- Schuyler county.** Bishop. Natural Gas. Geol. rep. 17 (for 1897) 1899. p.13-14. *Same*, Mus. rep. 51 (for 1897) 1899. 2:13-14.
- Bishop. Oil and Gas. Geol. rep. 19 (for 1899) 1901. p.127. *Same*, Mus. rep. 53 (for 1899) 1901. 1:127.
- Clarke. Geological Map showing Distribution of Portage Group. Geol. rep. 15 (for 1895) 1897. facing p.60. *Same*, Mus. rep. 49 (for 1895) 1898. v.2, facing p.60.
- Clarke. Oneonta, Ithaca and Portage Groups. Geol. rep. 15 (for 1895) 1897. p.63-81. *Same*, Mus. rep. 49 (for 1895) 1898. 2:63-81.
- Felt. Entomological Reports from. Ent. rep. 16 (for 1900) 1901. p.1021. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1021.
- Ent. rep. 17 (for 1901) 1902. p.794. (Mus. bul. 53).
- Ries. Marl. Mus. bul. 44. 1901. p.818. *Same*, Mus. rep. 54 (for 1900) 1902. 3:818.
- Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.83; 10. 1890. p.274.
- Schuyler's lake.** Vanuxem. Schuyler's Lake. Geol. N. Y. pt3. 1842. p.233.
- Scorodite.** Beck. Scorodite. Min. N. Y. 1842. p.396.
- Scorpion flies,** *see* Neuropteroid insects.
- Scratched rocks.** Mather. Smoothed and Scratched Surfaces of Rocks. Geol. N. Y. pt1. 1843. p.198-211.
- Mather. Theories of Erratic Blocks, Boulders, Scratches, etc. Geol. N. Y. pt1. 1843. p.214-21.
- Vanuxem. Scratches and Furrows upon Water-worn Rocks. Geol. N. Y. pt3. 1842. p.244-47.
- Scurfy bark louse.** Felt. Scurfy Bark Louse. Mus. bul. 46. 1901. p.300-4. *Same*, Mus. rep. 54 (for 1900) 1902. 4:300-4.
- Scutella limestone (Becraft; Upper Pentamerus).** Merrill. Scutella Limestone. Mus. bul. 19. 1898. p.157. *Same*, Mus. rep. 51 (for 1897) 1899. 1:157.
- ^aVanuxem. Scutella Limestone. Geol. rep. 3d dist. (for 1839) 1840. p.377. *See also* Becraft limestone; Encrinal limestone; Pentamerus limestone.
- Sea water.** Beck. Sea Water. Min. N. Y. 1842. p.179-80.
- Secondary system,** *see* Mesozoic; Upper secondary system.
- Seneca county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.99.
- Bishop. Natural Gas. Geol. rep. 17 (for 1897) 1899. p.12-13. *Same*, Mus. rep. 51 (for 1897) 1899. 2:12-13.
- Clarke. Geological Map showing Distribution of Portage Group. Geol. rep. 15 (for 1895) 1897. facing p.60. *Same*, Mus. rep. 49 (for 1895) 1898. v.2, facing p.60.
- Delafield. A General View and Agricultural Survey of. Ag. Soc. Trans. 10 (for 1850) 1851. p.356-616. illus. 1pl. map. Topographic map of Seneca county, N. Y. by William T. Gibson, 39.5x25.5cm.
- Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.570 (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:570.
- Ent. rep. 16 (for 1900) 1901. p.1021-22. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1021-22.
- Ent. rep. 17 (for 1901) 1902. p.795-96. (Mus. bul. 53).
- Hall. Seneca County. Geol. rep. 4th dist. (for 1838) 1839. p.290-304. Geol. N. Y. pt4. 1843. p.449-53.
- Lincoln. Report on the Structural and Economic Geology. Geol. rep. 14 (for 1894) 1895. p.12-13, 57-125. pl. (phot.) map. *Same*, Mus. rep. 48 (for 1894) 1895. 2:12-13, 57-125. pl. (phot.) map. Map of Seneca co. (uncolored) 27.5x48.5cm. Contains a bibliography.

Seneca county (*continued*)

Ries. Brick Yards. Mus. bul. 12. 1895. p.202. *Same*, Mus. rep. 48 (for 1894) 1895. 1:202 (2d paging).

— — — Mus. bul. 35. 1900. p.718. *Same*, Mus. rep. 54 (for 1900) 1902. 2:718.

Ries. Limestone Formations. Mus. bul. 44. 1901. p.818-19. *Same*, Mus. rep. 54 (for 1900) 1902. 3:818-19.

Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.130-31; 10. 1890. p.253.

— — — *revised* by Merrill. Mus. bul. 15. 1895. p.446. *Same*, Mus. rep. 48 (for 1894) 1895. 1:446 (2d paging).

Seneca lake. Delafield. Seneca Lake. Ag. Soc. Trans. 10 (for 1850) 1851. p.407-9.

Hall. Seneca Lake. Geol. N. Y. pt4. 1843. p.406.

Lincoln. Seneca Lake. Geol. rep. 14 (for 1894) 1895. p.83. *Same*, Mus. rep. 48 (for 1894) 1895. 2:83.

See also Finger lakes.

Seneca limestone (Corniferous; Onondaga; Upper Helderberg). Delafield. Seneca Limestone of Seneca County. Ag. Soc. Trans. 10 (for 1850) 1851. p.447-51.

Geddes. Seneca Limestone of Onondaga County. Ag. Soc. Trans. 19 (for 1859) 1860. p.251-52.

Hall. Seneca Limestone of Ontario county. Geol. rep. 4th dist. (for 1838) 1839. p.310-12. Geol. N. Y. pt4. 1843. p.456-57.

^aHall. Seneca Limestone in Seneca County. Geol. rep. 4th dist. (for 1838) 1839. p.293-95. Geol. N. Y. pt4. 1843. p.450-51.

Lincoln. Seneca Limestone of Seneca county. Geol. rep. 14 (for 1894) 1895. p.88, 90-92. *Same*, Mus. rep. 48 (for 1894) 1895. 2:88, 90-92.

Ries. Seneca Blue Limestone. Mus. bul. 44. 1901. p.765. *Same*, Mus. rep. 54 (for 1900) 1902. 3:765.

Ries. Seneca Bluestone of Cayuga County. Mus. bul. 44. 1901. p.772. *Same*, Mus. rep. 54 (for 1900) 1902. 3:772.

Smock. Seneca Blue Limestone. Mus. bul. 3. 1888. p.22; 10. 1890. p.213.

— — — *revised* by Merrill. Mus. bul. 15. 1895. p.428. *Same*, Mus. rep. 48 (for 1894) 1895. 1:428 (2d paging).

— — — *revised* by Merrill. Mus. bul. 19. 1898. p.202. *Same*, Mus. rep. 51 (for 1897) 1899. 1:202.

^aVanuxem. Seneca Limestone. Geol. rep. 3d dist. (for 1838) 1839. p.275-78; (for 1839) 1840. p.378-79. Geol. N. Y. pt3. 1842. p.144-45.

Vanuxem. Seneca Limestone in Madison County. Geol. N. Y. pt3. 1842. p.274.

Vanuxem. Seneca Limestone in Onondaga County. Geol. N. Y. pt3. 1842. p.284.

Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.144-45.

See also Corniferous limestone; Onondaga limestone; Upper Helderberg group.

Seneca oil, *see* Petroleum.

Senecan. ^bClarke & Schuchert. Senecan. Mus. mem. 3. 1900. p.11. *Same*, Mus. rep. 53 (for 1899) 1901. 2:11.

Sepiolite. Whitlock. Sepiolite. Mus. bul. 58. 1902. p.114.

Serpentine. Beck. Serpentine. Min. rep. (for 1838) 1839. p.38-41. Min. N. Y. 1842. p.57-58, 272-79. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.132.

^a Term used by Hall and Vanuxem in 1839.

^b First use of term in original publication of this article. Science. 1899. new ser. 10:877.

Serpentine (*continued*)

- Emmons. Serpentine. Geol. rep. 2d dist. (for 1837) 1838. p.205. Geol. N. Y. pt2. 1842. p.67-72. Ag. N. Y. 1846. 1:41.
- Emmons. Serpentine Marble of Warren County. Geol. N. Y. pt2. 1842. p.176-77.
- Gale. Serpentine of New York County. Geol. rep. 1st dist. (for 1838) 1839. p.191.
- Hunt. Serpentine. Mus. rep. 21 (for 1867) 1871. p.75-76.
- Mather. Serpentine of Staten Island. Geol. rep. 1st dist. (for 1837) 1838. p.139.
- Mather. Serpentine of New York, Westchester and Putnam Counties. Geol. rep. 1st dist. (for 1838) 1839. p.99-101.
- Mather. Serpentine Rocks. Geol. N. Y. pt1. 1843. p.283-85, 462-63, 541.
- Mather. Crystallized Serpentine. Geol. N. Y. pt1. 1843. p.509-12.
- Merrill. Origin of the Serpentine in the Vicinity of New York. Mus. rep. 50. (for 1896) 1898. 1:32-44 (1st paging). 8pl.
- Merrill. Localities. Mus. bul. 15. 1895. p.582. *Same*, Mus. rep. 48 (for 1894) 1895. 1:582 (2d paging).
- — — Mus. bul. 19. 1898. p.234. *Same*, Mus. rep. 51 (for 1897) 1899. 1:234.
- Smock. Serpentine. Mus. bul. 3. 1888. p.14.
- Vanuxem. Serpentine of Syracuse. Geol. rep. 3d dist. (for 1838) 1839. p.283-84.
- Vanuxem. Metamorphic Rock near Syracuse. Geol. N. Y. pt3. 1842. p.109.
- Whitlock. Serpentine. Mus. bul. 58. 1902. p.113.

Serpents, *see* Reptiles.

- Sewer-pipe.** Bishop. Sewer-pipe Manufacture of Erie County. Geol. rep. 15 (for 1895) 1897. p.344-45. *Same*, Mus. rep. 49 (for 1895) 1898. 2:344-45.
- Merrill. Directory of Manufacturers. Mus. bul. 15. 1895. p.502-18. *Same*, Mus. rep. 48 (for 1894) 1895. 1:502-18 (2d paging).
- Ries. Sewer Pipes. Mus. bul. 12. 1895. p.226-28. *Same*, Mus. rep. 48 (for 1894) 1895. 1:226-28 (2d paging).
- — — *revised*. Mus. bul. 35. 1900. p.767-70, 904-7. *Same*, Mus. rep. 54 (for 1900) 1902. 2:767-70, 904-7.
- Ries. Directory of Manufacturers. Mus. bul. 35. 1900. p.913-25. *Same*, Mus. rep. 54 (for 1900) 1902. 2:913-25.

Seybertite, *see* Clintonite.

- Shade trees.** Felt. Elm-leaf Beetle in New York State. Mus. bul. 20. 1898. 43p. illus. 1pl. (lith.) 5pl. (phot.) *Same*, Mus. rep. 52 (for 1898) 1900. 1:1-43. illus. 1pl. (lith.) 5pl. (phot.)
- — — *revised*. Mus. bul. 57. 1902. 43p. illus. 7pl. (phot.) 1pl. (lith.)
- Felt. Insects Injurious to Maple Trees. Forest, Fish and Game Com. rep. 4 (for 1898) 1899. p.367-95. illus. 3pl.
- Felt. Shade Tree Pests in New York State. Mus. bul. 27. 1899. p.39-60. illus. 5pl. (phot.) *Same*, Mus. rep. 53 (for 1899) 1901. 1:39-60. 5pl. (phot.)
- Felt. Insects Injurious to Elm Trees. Forest, Fish and Game Com. rep. 5 (for 1899) 1900. p.351-79. illus. 3pl.
- Felt. Insects Affecting Shade Trees. Ent. rep. 17 (for 1901) 1902. p.738-49. (Mus. bul. 53).
- — — Ent. rep. 18 (for 1902). p.108-10. *In press*.
- Felt. Insects Affecting Park and Woodland Trees. Mus. mem. *In press*.

Shade trees (*continued*)

Fitch. Insects Injurious to. Ag. Soc. Trans. 15 (for 1855) 1856. p.501-8 (rep. 2. sep. ed. p.269-76).

Shales. Emmons. Transition Rocks of Essex; Limestones, Shales, etc. Geol. rep. 2d dist. (for 1837) 1838. p.226-30.

Hall. Argillaceous and Calcareous Shales of the Genesee and Niagara Rivers. Geol. rep. 4th dist. (for 1837) 1838. p.297-99.

Hall. Shales of Seneca County. Geol. rep. 4th dist. (for 1838) 1839. p.295-300.

Merrill. Shales and Shale Products. Mus. bul. 19. 1898. p.214. *Same*, Mus. rep. 51 (for 1897) 1899. 1:214.

Ries. Physical Tests of the Devonian Shales of New York State to determine their Value for the Manufacture of Clay Products. Geol. rep. 15 (for 1895) 1897. p.673-98. *Same*, Mus. rep. 49 (for 1895) 1898. 2:673-98.

Ries. Shales of New York. Mus. bul. 35. 1900. p.825-41. *Same*, Mus. rep. 54 (for 1900) 1902. 2:825-41.

— — — Analyses. Mus. bul. 35. 1900. p.898-901. *Same*, Mus. rep. 54 (for 1900) 1902. 2:898-901.

Vanuxem. Sandstone and Shale. Geol. rep. 4th dist. (for 1836) 1837. p.190-91 (ed. 2, p.192-93).

See also Slates.

Shaly limestone. Darton. Shaly Limestone of Albany County. Geol. rep. 13 (for 1893) 1894. p.246. *Same*, Mus. rep. 47 (for 1893) 1894. p.410.

See also Lower shaly beds; Upper shaly limestone.

Shawangunk grit (Oneida conglomerate). Clarke & Schuchert. Shawangunk Grit. *See* New York series.

Darton. Shawangunk Grit. Geol. rep. 13 (for 1893) 1894. p.220-21. *Same*, Mus. rep. 47 (for 1893) 1894. p. 414-15.

Darton. Shawangunk Grit of Ulster County. Geol. rep. 13 (for 1893) 1894. p.308-9. *Same*, Mus. rep. 47 (for 1893) 1894. p.502-3.

^aMather. Shawangunk Grit. Geol. rep. 1st dist. (for 1839) 1840. p.212, 246-55.

Mather. Shawangunk Grit or Conglomerate. Geol. N. Y. pt1. 1843. p.355-57.

Mather. Economical Applications and Mines. Geol. N. Y. pt1. 1843. p.357-62.

Merrill. Shawangunk Grit. Mus. bul. 19. 1898. p.151. *Same*, Mus. rep. 51 (for 1897) 1899. 1:151.

See also Oneida conglomerate.

Shawangunk mountain. Darton. Shawangunk Mountain. Geol. rep. 13 (for 1893) 1894. p.346-58. *Same*, Mus. rep. 47 (for 1893) 1894. p.540-52.

Shell grit, *see* Schoharie grit.

Shell limerock (Eaton), *see* Onondaga salt group.

Shell marl, *see* Marl.

Shell money, *see* Wampum.

Shells, *see* Mollusca.

Sherburne formation. Clarke. Sherburne Sandstones. Geol. rep. 15 (for 1895) 1897. p.43. *Same*, Mus. rep. 49 (for 1895) 1898. 2:43.

Conrad. Sherburne Group. Pal. rep. (for 1840) 1841. p.31.

Prosser. Sherburne formation. Geol. rep. 15 (for 1895) 1897. p.112-13. *Same*, Mus. rep. 49 (for 1895) 1898. 2:112-13.

Sherburne formation (*continued*)

*a*Vanuxem. Sherburne Flagstone. Geol. rep. 3d dist. (for 1839) 1840. p.31.

See also Erie division; Hamilton group; Portage group.

Siderite. Beck. Spathose Iron. Min. N. Y. 1842. p.397-98.

Merrill. Localities in New York. Mus. bul. 15. 1895. p.543. *Same*, Mus. rep. 48 (for 1894) 1895. 1:543 (2d paging).

Smock. Carbonate Ores of the Hudson River. Mus. bul. 7. 1889. p.13-14, 62-65.

— — — *revised* by Merrill. Mus. bul. 15. 1895. p.541-42. *Same*, Mus. rep. 48 (for 1894) 1895. 1:541-42 (2d paging).

— — — *revised* by Merrill. Mus. bul. 19. 1898. p.221-22. *Same*, Mus. rep. 51 (for 1897) 1899. 1:221-22.

Whitlock. Siderite. Mus. bul. 58. 1902. p.82.

Sienite, *see* Syenite.**Silica.** Beck. Silica. Min. N. Y. 1842. p.257-313. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.129-35.**Silicates.** Emmons. Silicates. Ag. N. Y. 1846. 1:40.**Silicious conglomerate.** Vanuxem. Siliceous Conglomerate. Geol. rep. 4th dist. (for 1836) 1837. p.193-94 (ed. 2, p.195-96).**Sillimanite.** Beck. Sillimanite. Min. N. Y. 1842. p.454.

Whitlock, Sillimanite. Mus. bul. 58. 1902. p.103.

†Silurian. Conrad. Organic Remains of Lower Transition or Silurian System. Pal. rep. (for 1837) 1838. p.107-19; (for 1838) 1839. p.57-66; (for 1839) 1840. p.200-7; (for 1840) 1841. p.25-41.

Hall. Table of Rocks. Geol. rep. 4th dist. (for 1839) 1840. p.452-53.

White. Report on the Relations of the Ordovician and Eo-Silurian Rocks in Portions of Herkimer, Oneida and Lewis Counties. Mus. rep. 51 (for 1897) 1899. 1:21-54. pl. (phot.) 2 maps.

Map of the vicinity of Frankfort hill, 31.5x16.5cm.

Map of the Precambrian border in Oneida and Lewis counties, 49.5x16cm.

See also New York series: Lower Silurian; Ontaric; Upper Silurian; *also* names of subdivisions.

Siluric (Ontaric). Clarke & Schuchert. Siluric. *See* New York series.**Silver.** Beck. Silver. Min. N. Y. 1842. p.442-43.

Mather. Silver Ores. Geol. N. Y. pt1. 1843. p.500-9.

Watson. Silver Ore in Essex County. Ag. Soc. Trans. 12 (for 1852) 1853. p.788; 13 (for 1853) 1854. p.719.

Whitlock. Silver. Mus. bul. 58. 1902. p.50, 53, 61, 62-64.

Silver fish. Felt. Silver Fish. Ent. rep. 14 (for 1898) 1898. p.216-18 (Mus. bul. 23). *Same*, Mus. rep. 52 (for 1898) 1900. 1:216-18.

— — — Ag. Soc. Trans. 59 (for 1899) 1900. p.301.

Skaneateles lake. Geddes. Skaneateles Lake. Ag. Soc. Trans. 19 (for 1859) 1860. p.260.

Vanuxem. Skaneateles Lake. Geol. N. Y. pt3. 1842. p.238-39.

Skaneateles shale. *a*Vanuxem. Skaneateles Shales. Geol. rep. 3d dist. (for 1839) 1840. p.380.

See also Erie division; Hamilton group.

Skunnemunk conglomerate. Ries. Skunnemunk Conglomerate of Orange County. Geol. rep. 15 (for 1895) 1897. p.404. *Same*, Mus. rep. 49 (for 1895) 1898. 2:404.

a First use of term.

b For papers discussing line of division between Silurian and Devonian, *see* under Devonian.

- Skunnemunk mountain.** Ries. Geologic Relations of the Area along Skunnemunk Mountain. Geol. rep. 15 (for 1895) 1897. p.415-26. *Same*, Mus. rep. 49 (for 1895) 1898. 2:415-26.
- Slates.** Fitch. Slates of Washington County. Ag. Soc. Trans. 9 (for 1849) 1850. p.827-38.
- Mather. Slate of Columbia and Dutchess Counties. Geol. rep. 1st dist. (for 1837) 1838. p.160-65.
- Merrill. Directory of Quarrymen. Mus. bul. 15. 1895. p.485. *Same*, Mus. rep. 48 (for 1894) 1895. 1:485 (2d paging).
- Merrill. Definition. Mus. bul. 19. 1898. p.126. *Same*, Mus. rep. 51 (for 1897) 1899. 1:126.
- Smock. Slate Quarries. Mus. bul. 3. 1888. p.23-24, 135-43, 146; 10. 1890. p.279-81.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.421-23. *Same*, Mus. rep. 48 (for 1894) 1895. 1:421-23 (2d paging).
- — *revised* by Merrill. Mus. bul. 19. 1898. p.196. *Same*, Mus. rep. 51 (for 1897) 1899. 1:196.
- See also* Magnesian slate; Mica slate; Roofing slates; Shales.
- Slaty limestone.** Mather. Slaty Limestone. Geol. rep. 1st dist. (for 1840) 1841. p.95-96. Geol. N. Y. pt1. 1843. p.417.
- Smaltite.** Beck. Smaltine. Min. N. Y. 1842. p.454.
- Whitlock. Smaltite. Mus. bul. 58. 1902. p.59.
- Smithsonite.** Whitlock. Smithsonite. Mus. bul. 58. 1902. p.83.
- Snails,** *see* Gastropoda.
- Soap.** Felt. Whale Oil Soap for Scale Insects. Ent. rep. 16 (for 1900) 1901. p.977-82. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:977-82.
- — Ent. rep. 17 (for 1901) 1902. p.770-75. (Mus. bul. 53).
- — Ent. rep. 18 (for 1902). p.130-31, 138. *In press*.
- — Mus. bul. 46. 1901. p.336-37. *Same*, Mus. rep. 54 (for 1900) 1902. 4:336-37.
- Ries. Manufacture. Mus. bul. 44. 1901. p.669-70. *Same*, Mus. rep. 54 (for 1900) 1902. 3:669-70.
- Soapstone.** Emmons. Soapstone. Geol. rep. 2d dist. (for 1837) 1838. p.206. Geol. N. Y. pt2. 1842. p.352-53.
- See also* Talc.
- Soda.** Ries. Soda Manufacture. Mus. bul. 44. 1901. p.659. *Same*, Mus. rep. 54 (for 1900) 1902. 3:659.
- Sodium iodide.** Beck. Hydriodate of Soda. Min. rep. (for 1838) 1839. p.17. Min. N. Y. 1842. p.200.
- Sodom, Lake.** Geddes. Lake Sodom. Ag. Soc. Trans. 19 (for 1859) 1860. p.261.
- Vanuxem. Lake Sodom. Geol. rep. 3d dist. (for 1838) 1839. p.264-69. Geol. N. Y. pt3. 1842. p.242.
- Soils.** Beck. Soils. Min. N. Y. 1842. p.89-93.
- Emmons. Soils. Geol. rep. 2d dist. (for 1837) 1838. p.187-94.
- Emmons. Agriculture of New York. 1846-54. 5v. illus. pl. sq. Q.
For contents, *see* List of publications, p.269-70.
- Horton. Improvement of the Soil; Manures. Geol. rep. 1st dist. (for 1838) 1839. p.154-56.
- Mather. Soils. Geol. rep. 1st dist. (for 1836) 1837. p.66-70 (ed. 2, p.68-72); (for 1840) 1841. p.63-66.
- Vanuxem. Soil. Geol. N. Y. pt3. 1842. p.231-33.
- Southern tomicus.** Felt. Southern Tomicus. Forest, Fish and Game Com. rep. 7 (for 1901). *In press*.
- Sparry limerock** (Eaton), *see* Gray sparry limestone; Black river limestone.

- Sparry limestone.** Emmons. Sparry Limestone. Geol. N. Y. pt2. 1842. p.151-52. Ag. N. Y. 1846. 1:72-74.
- Fitch. Sparry Limestone of Washington County. Ag. Soc. Trans. 9 (for 1849) 1850. p.843.
- Spathic iron, see Siderite.**
- Specular iron ore, see Hematite.**
- Sphalerite.** Beck. Zinc Blende. Min. N. Y. 1842. p.52, 408-11. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.149.
- Merrill. Localities. Mus. bul. 15. 1895. p.580. *Same*, Mus. rep. 48 (for 1894) 1895. 1:580 (2d paging).
- — — Mus. bul. 19. 1898. p.233. *Same*, Mus. rep. 51 (for 1897) 1899. 1:233.
- Whitlock. Sphalerite. Mus. bul. 58. 1902. p.54.
- Sphene, see Titanite.**
- Spinel.** Beck. Spinelle. Min. N. Y. 1842. p.315-18. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.135.
- Hunt. Spinel. Mus. rep. 21 (for 1867) 1871. p.85.
- Whitlock. Spinel. Mus. bul. 58. 1902. p.72-73.
- Spodumene.** Beck. Spodumene. Min. N. Y. 1842. p.368.
- Whitlock. Spodumene. Mus. bul. 58. 1902. p.93.
- Spongiae.** Clarke. Type Specimens in New York State Museum. Mus. bul. 65. *In press.*
- Dirty. Revision of the Sponges and Coelenterates of the Lower Helderberg Group of New York. Geol. rep. 14 (for 1894) 1895. p.16, 259-309. 7pl. *Same*, Mus. rep. 48 (for 1894) 1895. 2:16, 259-309. 7pl.
- Hall. Note on the Occurrence of *Astylospongia* in the Lower Helderberg Rocks. Mus. rep. 16 (for 1862) 1863. p.69-70.
- Hall. Note on the Geological Range of the Genus *Receptaculites* in American Palaeozoic Strata. Mus. rep. 16 (for 1862) 1863. p.67-69.
- Hall & Fitz-Gaertner. On the Structure of *Astraeospongia meniscus*. Mus. rep. 30 (for 1876) 1878. p.111-16.
- Hall. Illustration of *Cryptozoön*. Mus. rep. 36 (for 1882) 1883. pl.6.
- Dictyospongiidae.** Clarke. Dictyonine Hexactinellid Sponges from the Upper Devonian of New York. Mus. bul. 39. 1900. p.187-90. pl.10-11. *Same*, Mus. rep. 54 (for 1900) 1902. 3:187-90. pl.10-11.
- Hall. Observations upon the Genera *Uphantaenia* and *Dictyophyton*, with notices of some species from the Chemung group of New York and the Waverly sandstone of Ohio. Mus. rep. 16 (for 1862) 1863. p.84-91. 4pl.
- Hall. Descriptions of the Species of Fossil Reticulate Sponges constituting the Family *Dictyospongiidae*. Mus. rep. 35 (for 1881) 1884. p.465-81. pl.18-21.
- Hall. Note on the Occurrence of the *Dictyospongiidae* in the State of New York. Geol. rep. 6 (for 1886) 1887. p.36-38. map.
Map showing geographic distribution of *Dictyospongiidae* in Steuben and adjoining counties, 33x26cm.
- Hall. New Forms of *Dictyospongiidae* from Rocks of the Chemung Group. Geol. rep. 9 (for 1889) 1890. p.56-60. *Same*, Mus. rep. 43 (for 1889) 1890. p.258-62.
- Hall & Clarke. Memoir on the Palaeozoic Reticulate Sponges constituting the Family *Dictyospongiidae*. Mus. mem. 2, 1898. 35p. illus. 70pl. *Same*, Pt1, Geol. rep. 15 (for 1895) 1898. 2:741-984. illus. 47pl. Pt2, Geol. rep. 16 (for 1896) 1899. p.341-448. illus. pl. 48-70. *Same*, Pt1, Mus. rep. 49 (for 1895) 1898. 3:741-984. illus. 47pl. Pt2, Mus. rep. 50 (for 1896) 1899. 2:341-448. illus. pl.48-70.
Contains a bibliography.

- Springs.** Bishop. Springs of Erie County. Geol. rep. 15 (for 1895) 1897. p.325. *Same*, Mus. rep. 49 (for 1895) 1898. 2:325.
- Delafield. Springs of Seneca County. Ag. Soc. Trans. 10 (for 1850) 1851. p.468-74.
- Evans. Springs of Madison County. Ag. Soc. Trans. 11 (for 1851) 1852. p.707-9.
- Hall. Water and Springs. Geol. rep. 4th dist. (for 1838) 1839. p.335-38.
- Hall. Springs. Geol. N. Y. pt4. 1843. p.44, 99, 179, 194, 239, 260.
- Hall. Springs in Corniferous Limestone. Geol. N. Y. pt4. 1843. p.168-70.
- Hall. Springs of Monroe County. Geol. rep. 4th dist. (for 1837) 1838. p.333-36. Geol. N. Y. pt4. 1843. p.426.
- Hall. Springs of Niagara County. Geol. rep. 4th dist. (for 1837) 1838. p.365. Geol. N. Y. pt4. 1843. p.445-46.
- Hall. Springs of Orleans County. Geol. rep. 4th dist. (for 1837) 1838. p.352. Geol. N. Y. pt4, 1843. p.436.
- Horsford. Springs of Cattaraugus County. Geol. rep. 4th dist. (for 1839) 1840. p.464-65.
- Lincoln. Springs of Seneca County. Geol. rep. 14 (for 1894) 1895. p.82-83. *Same*, Mus. rep. 48 (for 1894) 1895. 2:82-83.
- Mather. Springs; Limestone Springs. Geol. N. Y. pt1. 1843. p.108-13, 145-47, 270-71.
- Mather. Springs of Columbia and Dutchess Counties. Geol. rep. 1st dist. (for 1837) 1838. p.173-74.
- Mather. Springs of Long Island. Geol. rep. 1st dist. (for 1837) 1838. p.137-38. Geol. N. Y. pt1. 1843. p.108-9.
- See also* Mineral springs.
- Spruces.** Peck. The Black Spruce. Alb. Inst. Trans. 1876. 8:283-301.
- Squash vine borer.** Lintner. Squash Vine Borer. Ent. rep. 2 (for 1882 and 1883) 1885. p.57-68.
- Stafford limestone.** Bishop. Stafford Limestone of Erie County. Geol. rep. 15 (for 1895) 1897. p.314, 333. *Same*, Mus. rep. 49 (for 1895) 1898. 2:314, 333.
- a*Clarke. Stafford Limestone. Geol. rep. 8 (for 1888) 1889. p.60. *Same*, Mus. rep. 42 (for 1888) 1889. p.406.
- Clarke. Limestones of Central and Western New York interbedded with Bituminous Shales of the Marcellus Stage with notes on their faunas. Mus. bul. 49. 1901. p.115-38. pl.8-9.
- Clarke. Fauna. Mus. bul. 49. 1901. p.130-35. Mus. bul. 52. 1902. p.669.
- Wood. Marcellus (Stafford) Limestones of Lancaster, Erie Co. N. Y. Mus. bul. 49. 1901. p.139-81. pl.9.
- See also* Marcellus shales.
- Stalk-borer.** Lintner. Stalk-borer. Ent. rep. 1 (for 1881) 1882. p.110-16.
- Starfishes,** *see* Echinoderma.
- State Museum,** *see* New York State Museum.
- Staten Island,** *see* Richmond county.
- Staurolite.** Beck. Staurolite. Min. N. Y. 1842. p.333-34.
- Whitlock. Staurolite. Mus. bul. 58. 1902. p.107-8.
- Steatite.** Emmons. Talc. or Steatite. Geol. N. Y. pt2. 1842. p.80.
- Emmons. Steatite or Soapstone of St Lawrence County. Geol. N. Y. pt2. 1842. p.352-53.
- Mather. Steatite of New York and Putnam Counties. Geol. rep. 1st dist. (for 1838) 1839. p.101.

Steatite (*continued*)

Mather. Steatite in Putnam and Dutchess Counties. Geol. N. Y. pt. 1. 1843. p.487.

See also Talc.

Steatitic-pyroxene, *see* Rensselaerite.

Stellite. Beck. Stellite. Min. rep. (for 1839) 1840. p.110-11. Min. N. Y. 1842. p.342-43. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.139-40.

Stephanite. Whitlock. Stephanite. Mus. bul. 58. 1902. p.63.

Steuben county. Beck. Mineralogy. Min. rep. (for 1839) 1840. p.99-100.

Bishop. Consumption of Natural Gas. Geol. rep. 19 (for 1899) 1901. p.113-15. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r113-15.

Bishop. Oil and Gas. Geol. rep. 19 (for 1899) 1901. p.128-32. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r128-32.

Denniston. Survey of. Ag. Soc. Trans. 21 (for 1861) 1862. p.547-661. map.

Map of Steuben county (uncolored) 43.5x42.5cm.

Dickinson. Bluestone Quarries. Mus. bul. 61. *In press.*

Felt. Entomological reports from. Ent. rep. 15 (for 1899) 1900. p.571. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:571.

— — — Ent. rep. 16 (for 1900) 1901. p.1022. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1022.

Hall. Steuben County. Geol. rep. 4th dist. (for 1838) 1839. p.324-26; (for 1839) 1840. p.395-401. Geol. N. Y. pt. 1. 1843. p.480-84.

Ries. Brick Yards. Mus. bul. 12. 1895. p.208, 250. *Same*, Mus. rep. 48 (for 1894) 1895. 1:208, 250 (2d paging).

— — — Mus. bul. 35. 1900. p.725-26. *Same*, Mus. rep. 54 (for 1900) 1902. 2:725-26.

Ries. Marl. Mus. bul. 44. 1901. p.819. *Same*, Mus. rep. 54 (for 1900) 1902. 3:819.

Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.87-90; 10. 1890. p.276-77.

— — — *revised* by Merrill. Mus. bul. 15. 1895. p.409-10. *Same*, Mus. rep. 48 (for 1894) 1895. 1:409-10 (2d paging).

Stibnite. Whitlock. Stibnite. Mus. bul. 58. 1902. p.52.

Stilbite. Beck. Stilbite. Min. N. Y. 1842. p.345-46.

Whitlock. Stilbite. Mus. bul. 58. 1902. p.109.

Stockbridge limestone. Emmons. Stockbridge Limestone. Geol. N. Y. pt. 2. 1842. p.154-58. Ag. N. Y. 1846. 1:78-80.

Stone, *see* Building stone.

Stone flies, *see* Neuropteroid insects.

Stone implements. Beauchamp. Aboriginal Chipped Stone Implements of New York. Mus. bul. 16. 1897. 86p. 23pl. (phot.) *Same*, Mus. rep. 50 (for 1896) 1898. 1:3-86 (2d paging). 23pl. (phot.)

Beauchamp. Polished Stone Articles used by the New York Aborigines. Mus. bul. 18. 1897. 102p. 35pl. (phot.) *Same*, Mus. rep. 51 (for 1897) 1899. 1:3-102. 35pl. (phot.)

Morgan. Stone and Bone Implements of the Arickarees. Mus. rep. 21 (for 1867) 1871. p.25-46. 6pl.

Stoneware, *see* Pottery.

Stratigraphy, *see* New York series; *also names of formations.*

Street pavements. Smock. Street Pavements. Mus. bul. 10. 1890. p.307-8, 318-20, 322, 324, 329-30, 331-33, 335-38, 341-43, 346, 350-52.

See also Paving brick.

- Strontia.** Beck. Strontia. Min. N. Y. 1842. p.210-14.
- Strontianite.** Beck. Strontianite. Min. N. Y. 1842. p.212-13. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.123-24.
- Whitlock. Strontianite. Mus. bul. 58. 1902. p.85.
- Strontium.** Whitlock. Strontium. Mus. bul. 58. 1902. p.85, 125-26.
- Subterranean streams.** Mather. Subterranean Streams. Geol. N. Y. pt. 1. 1843. p.111, 235.
- Suffolk county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.100.
- Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.571. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:571.
- — — Ent. rep. 18 (for 1902). p.151. *In press.*
- Mather. Local Details of the Economical Geology of Suffolk County. Geol. rep. 1st dist. (for 1836) 1837. p.74-91 (ed. 2, p.76-93).
- Ries. Brick Yards. Mus. bul. 12. 1895. p.215-20, 242. *Same*, Mus. rep. 48 (for 1894) 1895. 1:215-20, 242 (2d paging).
- — — Mus. bul. 35. 1900. p.734-42. *Same*, Mus. rep. 54 (for 1900) 1902. 2:734-42.
- See also* Long Island.
- Sugar manufacture.** Ries. Sugar Manufacture. Geol. rep. 17 (for 1897) 1899. p.381-84. *Same*, Mus. rep. 51 (for 1897) 1899. 2:381-84.
- — — Mus. bul. 44. 1901. p.655-58. *Same*, Mus. rep. 54 (for 1900) 1902. 3:655-58.
- Sulfite pulp.** Ries. Sulfite Pulp. Geol. rep. 17 (for 1897) 1899. p.374-75. *Same*, Mus. rep. 51 (for 1897) 1899. 2:374-75.
- Sulfur.** Beck. Sulphur. Min. rep. (for 1838) 1839. p.15. Min. N. Y. 1842. p.94, 181-82. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.118.
- Mather. Sulphur and Carburetted Hydrogen. Geol. N. Y. pt. 1. 1843. p.113-14.
- Whitlock. Sulfur. Mus. bul. 58. 1902. p.48.
- Sulfur springs.** Beck. Sulphuretted or Sulphureous Springs. Min. rep. (for 1837) 1838. p.55-68. Min. N. Y. 1842. p.141-56. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.112-15.
- Carr. Sulphur Springs. Geol. rep. 3d dist. (for 1839) 1840. p.386-87.
- Hall. Sulphur Springs. Geol. rep. 4th dist. (for 1837) 1838. p.317, 334, 353, 365; (for 1838) 1839. p.335; (for 1839) 1840. p.448, 465.
- Hall. Sulphuretted Hydrogen Springs. Geol. N. Y. pt. 1. 1843. p.311-14, 417, 436, 445, 491.
- Mather. Hepatic or Sulphur Springs. Geol. N. Y. pt. 1. 1843. p.91-94, 113-14.
- Peale. Sulphur Springs. Mus. bul. 15. 1895. p.567-69. *Same*, Mus. rep. 48 (for 1894) 1895. 1:567-69 (2d paging).
- Sulphuretted hydrogen.** Beck. Sulphuretted Hydrogen Gas. Min. rep. (for 1838) 1839. p.14. Min. N. Y. 1842. p.173.
- Sulfuric acid.** Beck. Sulphuric Acid. Min. rep. (for 1838) 1839. p.16. Min. N. Y. 1842. p.177-78.
- Sullivan county.** Beck. Lead or Zinc Mines of Sullivan and Ulster. Min. rep. (for 1838) 1839. p.49-53; (for 1840) 1841. p.6-8.
- Beck. Mineralogy. Min. rep. (for 1839) 1840. p.100.
- Dickinson. Bluestone Quarries. Mus. bul. 61. *In press.*
- Mather. Economical Geology. Geol. rep. 1st dist. (for 1839) 1840. p.213-58.
- Mather. Hudson River Group. Geol. N. Y. pt. 1. 1843. p.372.
- Mather. Dip and Strike of Rocks. Geol. N. Y. pt. 1. 1843. p.621.
- Merrill. Hudson River Bluestone Quarries. Mus. bul. 15. 1895. p.461-63. *Same*, Mus. rep. 48 (for 1894) 1895. 1:461-63 (2d paging).

Sullivan county (*continued*)

Prosser. Distribution of the Middle and Upper Devonian. Geol. rep. 17 (for 1897) 1899. p.304-11. *Same*, Mus. rep. 51 (for 1897) 1899. 2:304-11.

Ries. Brick Yards. Mus. bul. 12. 1895. p.212-13. *Same*, Mus. rep. 48 (for 1894) 1895. 1:212-13 (2d paging).

— Mus. bul. 35. 1900. p.732. *Same*, Mus. rep. 54 (for 1900) 1902. 1:2:732.

Syenites. Cushing. Syenites of Franklin County. Geol. rep. 18 (for 1898) 1899. p.105-9. *Same*, Mus. rep. 52 (for 1898) 1900. 2:105-9.

Cushing. Syenites in Franklin and St Lawrence Counties. Geol. rep. 20 (for 1900) 1902. p.r25-82. *Same*, Mus. rep. 54 (for 1900) 1902 1:r25-82. Including analyses.

Cushing. Pre-Cambrian Outlier at Little Falls, Herkimer Co. Geol. rep. 20 (for 1900) 1902. p.r83-95. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r83-95.

Emmons. Sienite. Geol. N. Y. pt2. 1842. p.80-81.

Mather. Sienite of Westchester and Putnam Counties. Geol. rep. 1st dist. (for 1838) 1839. p.98-99. Geol. N. Y. pt1. 1843. p.528-29.

Mather. Sienite in the Highlands. Geol. N. Y. pt1. 1843. p.536-37.

Smock. Syenite. Mus. bul. 3. 1888. p.10-12; 10. 1890. p.204-5.

Smyth. Syenites of Adirondacks. Geol. rep. 17 (for 1897) 1899. p.474-97. *Same*, Mus. rep. 51 (for 1897) 1899. 2:474-97.

See also Augite-syenites; Crystalline rocks.

Sylvanite. Whitlock. Sylvanite. Mus. bul. 58. 1902. p.61.

Syracuse. Smock. Stone Construction in. Mus. bul. 10. 1890. p.333-41.

Tabular spar, *see* Wollastonite.

Taonic (Cambric). Clarke & Schuchert. Taonic. *See* New York series.

αEmmons. Taonic System. Geol. N. Y. pt2. 1842. p.135-64. Ag. N. Y. 1846. 1:45-112.

Emmons. Catalogue of the Specimens arranged by Prof. E. Emmons, as Representatives of the Taonic System, at the Close of the Geological Survey of New York in 1843. Geol. rep. 8 (for 1888) 1889. p.95-98. *Same*, Mus. rep. 42 (for 1888) 1889. p.441-44.

Hall. Organic Remains. Pal. N. Y. 1847. 1:319-20.

Lincklaen. Taonic System. Mus. rep. 14 (for 1860) 1861. p.50.

Mather. Taonic System. Geol. N. Y. pt1. 1843. p.422-38.

Mather. Ores found in the Champlain, Taonic and Metamorphic Rocks. Geol. N. Y. pt1. 1843. p.488-509.

Vanuxem. Taonic System. Geol. N. Y. pt3. 1842. p.15, 22-23, 195.

See also Hudson river group.

Taonic sandstone. Fitch. Taonic Sandstone of Washington County. Ag. Soc. Trans. 9 (for 1849) 1850. p.838-43.

Taonic slate. Fitch. Taonic Slate of Washington County. Ag. Soc. Trans. 9 (for 1849) 1850. p.830-34.

Talc. Beck. Talc. Min. N. Y. 1842. p.284-85.

Hunt. Talc. Mus. rep. 21 (for 1867) 1871. p.79.

Merrill. Talc. Mus. bul. 15. 1895. p.556. *Same*, Mus. rep. 48 (for 1894) 1895. 1:556 (2d paging).

— Mus. bul. 19. 1898. p.227. *Same*, Mus. rep. 51 (for 1897) 1899. 1:227.

Nevius. Talc Industry of St Lawrence County. Mus. rep. 51 (for 1897) 1899. 1:r119-27. pl. (phot.)

Smyth. Talc of St Lawrence and Jefferson Counties. Geol. rep. 13 (for 1893) 1894. p.511-14. *Same*, Mus. rep. 47 (for 1893) 1894. p.705-8.

Talc (*continued*)

Smyth. Report on the Talc Industry of St Lawrence County. Geol. rep. 15 (for 1895) 1897. p.20, 661-71. *Same*, Mus. rep. 49 (for 1895) 1898. 2:20, 661-71.

Whitlock. Talc. Mus. bul. 58. 1902. p.113-14.

See also Steatite.

Talcose slates. Mather. Chloritic and Talcose Slates. Geol. rep. 1st dist. (for 1840) 1841. p.96-97.

Mather. Talcose Slate. Geol. rep. 1st dist. (for 1838) 1839. p.129-30.

Mather. Talcose Slate of Westchester and Putnam Counties. Geol. rep. 1st dist. (for 1838) 1839. p.88-89.

Tarnished plant bug. Lintner. Tarnished Plant Bug. Ent. rep. 13 (for 1897) 1898. p.351-57. *Same*, Mus. rep. 51 (for 1897) 1899. 1:351-57.

Tentaculite limestone (Manlius). Darton, Tentaculite Beds. Geol. rep. 13 (for 1893) 1894. p.215. *Same*, Mus. rep. 47 (for 1893) 1894. p.409.

Darton. Tentaculite Limestones in Albany County. Geol. rep. 13 (for 1893) 1894. p.247-48. *Same*, Mus. rep. 47 (for 1893) 1894. p.441-42.

Darton. Tentaculite Limestone in Ulster County. Geol. rep. 13 (for 1893) 1894. p.305-6. *Same*, Mus. rep. 47 (for 1893) 1894. p.499-500.

Mather. Tentaculite Limestone. Geol. rep. 1st dist. (for 1839) 1840. p.238. Geol. N. Y. pt.1. 1843. p.326, 350.

Mather. Fossils. Geol. N. Y. pt.1. 1843. p.350.

Ries. Tentaculite Limestone. Geol. rep. 17 (for 1897) 1899. p.369. *Same*, Mus. rep. 51 (for 1897) 1899. 2:369.

— — *revised*. Mus. bul. 44. 1901. p.760, 763. *Same*, Mus. rep. 54 (for 1900) 1902. 3:760, 763.

Ries. Tentaculite Limestones of Albany County. Geol. rep. 17 (for 1897) 1899. p.430. *Same*, Mus. rep. 51 (for 1897) 1899. 2:430.

— — *revised*. Mus. bul. 44. 1901. p.771. *Same*, Mus. rep. 54 (for 1900) 1902. 3:771.

Ries. Tentaculite Limestones of Herkimer County. Geol. rep. 17 (for 1897) 1899. p.438. *Same*, Mus. rep. 51 (for 1897) 1899. 2:438.

— — *revised*. Mus. bul. 44. 1901. p.788. *Same*, Mus. rep. 54 (for 1900) 1902. 3:788.

Ries. Tentaculite Limestones of Schoharie County. Mus. bul. 44. 1901. p.816-18. *Same*, Mus. rep. 54 (for 1900) 1902. 3:816-18.

Ries. Tentaculite Limestone of Ulster County. Geol. rep. 17 (for 1897) 1899. p.457-58. *Same*, Mus. rep. 51 (for 1897) 1899. 2:457-58.

— — *revised*. Mus. bul. 44. 1901. p.823. *Same*, Mus. rep. 54 (for 1900) 1902. 3:823.

Smock. Tentaculite Limestone. Mus. bul. 3. 1888. p.22; 10. 1890. p.212.

— — *revised* by Merrill. Mus. bul. 15. 1895. p.427. *Same*, Mus. rep. 48 (for 1894) 1895. 1:427 (2d paging).

— — *revised* by Merrill. Mus. bul. 19. 1898. p.201. *Same*, Mus. rep. 51 (for 1897) 1899. 1:201.

Smock. Quarries. Mus. bul. 3. 1888. p.94-134; 10. 1890. p.238-55.

— — *revised* by Merrill. Mus. bul. 15. 1895. p.432-47. *Same*, Mus. rep. 48 (for 1894) 1895. 1:432-47 (2d paging).

See also Manlius limestone.

Tephroite. Beck. Tephroite. Min. N. Y. 1842. p.455.

Hunt. Tephroite, Willemite. Mus. rep. 21 (for 1867) 1871. p.77.

Terenite. Beck. Terenite. Min. N. Y. 1842. p.444.

Emmons. Pyramidal Atelene Picrosmine: Terenite. Geol. rep. 2d dist. (for 1836) 1837. p.152 (ed.2. p.154).

- Terra cotta.** Merrill. Directory of Manufacturers. Mus. bul. 15. 1895. p.502-18. *Same*, Mus. rep. 48 (for 1894) 1895. 1:502-18 (2d paging).
- Ries. Terra Cotta. Mus. bul. 12. 1895. p.235-37. Mus. rep. 48 (for 1894) 1895. 1:235-37 (2d paging).
- — — *revised*. Mus. bul. 35. 1900. p.758-64, 904-5. *Same*, Mus. rep. 54 (for 1900) 1902. 2:758-64, 904-5.
- Ries. Directory of Manufacturers. Mus. bul. 35. 1900. p.913-25. *Same*, Mus. rep. 54 (for 1900) 1902. 2:913-25.
- Tertiary.** Conrad. Tertiary Formation. Pal. rep. (for 1840) 1841. p.46-48.
- Emmons. Tertiary. Geol. rep. 2d dist. (for 1836) 1837. p.120 (ed.2, p.122); (for 1837) 1838. p.232-39. Geol. N. Y. pt2. 1842. p.127-34. Ag. N. Y. 1846. 1:202-6.
- Emmons. Tertiary Beds of Clinton. Geol. N. Y. pt2. 1842. p.322-24.
- Emmons. Tertiary of Essex County. Geol. N. Y. pt2. 1842. p.283-84.
- Emmons. Tertiary of St Lawrence. Geol. N. Y. pt2. 1842. p.363-65.
- Emmons. Fossils. Geol. N. Y. pt2. 1842. p.128, 283.
- Hall. New Red Sandstone and Tertiary. Geol. N. Y. pt4. 1843. p.317.
- Mather. Tertiary Deposits. Geol. N. Y. pt1. 1843. p.246-47.
- Merrill. Tertiary System. Mus. bul. 19. 1898. p.174-75. *Same*, Mus. rep. 51 (for 1897) 1899. 1:174-75.
- Merrill. Life of the Tertiary Period. Mus. bul. 19. 1898. p.175. *Same*, Mus. rep. 51 (for 1897) 1899. 1:175.
- Tetrahedrite.** Whitlock. Tetrahedrite. Mus. bul. 58. 1902. p.62.
- Thomsonite.** Beck. Thomsonite. Min. N. Y. 1842. p.350-51.
- Thysanura.** Additions to Collection. Ent. rep. 6, p.190; 10, p.513; 13, p.375; 15, p.619; 17, p.824.
- For dates of reports, see List of publications, p.264.
- Tile.** Lincoln. Tile Manufacture of Seneca County. Geol. rep. 14 (for 1894) 1895. p.105-11. *Same*, Mus. rep. 48 (for 1894) 1895. 2:105-11.
- See also Decorative tile; Drain tile; Floor tile; Roofing tile.
- Till.** Lincoln. Till in Seneca County. Geol. rep. 14 (for 1894) 1895. p.78-79. *Same*, Mus. rep. 48 (for 1894) 1895. 2:78-79.
- Tin.** Beck. Tin Ore. Min. N. Y. 1842. p.455.
- Whitlock. Cassiterite (stream tin). Mus. bul. 58. 1902. p.75.
- Tioga county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.100.
- Bishop. Oil and Gas. Geol. rep. 19 (for 1899) 1901. p.r133. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r133.
- Dickinson. Bluestone Quarries. Mus. bul. 61. *In press*.
- Feno. Plants of the Susquehanna Valley and Adjacent Hills of Tioga County. Bot. rep. (for 1902). *In press*.
- Ries. Brick Yards. Mus. bul. 12. 1895. p.210, 250. *Same*, Mus. rep. 48 (for 1894) 1895. 1:210, 250 (2d paging).
- — — Mus. bul. 35. 1900. p.728. *Same*, Mus. rep. 54 (for 1900) 1902. 2:728.
- Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.85; 10. 1890. p.275-76.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.409. *Same*, Mus. rep. 48 (for 1894) 1895. 1:409 (2d paging).
- Vanuxem. Tioga County. Geol. N. Y. pt3. 1842. p.296-98.
- Titaniferous iron ore,** see Ilmenite.
- Titaniferous magnetite,** see Magnetite.
- Titanite.** Beck. Spheue. Min. N. Y. 1842. p.433-36. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.150-51.
- Hunt. Spheue. Mus. rep. 21 (for 1867) 1871. p.86.

Titanite (*continued*)

Nason. Sphene or Titanite. Mus. bul. 4. 1888. p.7-8, 15.

Whitlock. Titanite. Mus. bul. 58. 1902. p.115-16.

Titanium. Beck. Titanium. Min. rep. (for 1838) 1839. p.53. Min. N. Y. 1842. p.55-56, 427-37.

Tompkins county. Beck. Mineralogy. Min. rep. (for 1839) 1840. p.100-1.

Clarke. Geological Map showing Distribution of Portage Group. Geol. rep. 15 (for 1895) 1897. facing p.60. *Same*, Mus. rep. 49 (for 1895) 1898. v.2, facing p.60.

Dickinson. Bluestone Quarries. Mus. bul. 61. *In press*.

Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.571. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:571.

——— Ent. rep. 16 (for 1900) 1901. p.1022. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1022.

——— Ent. rep. 17 (for 1901) 1902. p.796-97. (Mus. bul. 53).

——— Ent. rep. 18 (for 1902). p.151. *In press*.

Hall. Tompkins. Geol. rep. 4th dist. (for 1838) 1839. p.317-21. Geol. N. Y. pt.4. 1843. p.475-77.

Ries. Brick Yards. Mus. bul. 12. 1895. p.210-11, 250. *Same*, Mus. rep. 48 (for 1894) 1895. 1:210-11, 250 (2d paging).

——— Mus. bul. 35. 1900. p.728-31. *Same*, Mus. rep. 54 (for 1900) 1902. 2:728-31.

Ries. Limestone Formations. Mus. bul. 44. 1901. p.819-20. *Same*, Mus. rep. 54 (for 1900) 1902. 3:819-20.

Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.81-83; 10. 1890. p.272-73.

——— *revised* by Merrill. Mus. bul. 15. 1895. p.406-7. *Same*, Mus. rep. 48 (for 1894) 1895. 1:406-7 (2d paging).

Vanuxem. Tompkins County. Geol. N. Y. pt.3. 1842. p.298-99.

Topaz. Beck. Topaz. Min. N. Y. 1842. p.455.

Whitlock. Topaz. Mus. bul. 58. 1902. p.102-3.

Topographic sheets. Merrill. Topographic Sheets. Geol. rep. 19 (for 1899) 1901. p.14-15. map. *Same*, Mus. rep. 53 (for 1899) 1901. 1:14-15. map. Map of New York showing atlas sheets surveyed by the United States Geological Survey in cooperation with the state engineer and surveyor. Jan. 1, 1900 (un-colored) 22.5x17.5cm.

See also Albion quadrangle; Amsterdam quadrangle; Brockport quadrangle; Brooklyn quadrangle; Canandaigua quadrangle; Harlem quadrangle; Hempstead quadrangle; Little Falls quadrangle; Medina quadrangle; Mooers quadrangle; Naples quadrangle; Olean quadrangle; Oyster Bay quadrangle; *also under names of counties*.

Topography, *see* Physical geography.

Torbernite. Whitlock. Torbernite. Mus. bul. 58. 1902. p.21.

Tortoises, *see* Reptiles.

Tourmalin. Beck. Tourmaline. Min. N. Y. 1842. p.356-60. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.142.

Hunt. Tourmaline. Mus. rep. 21 (for 1867) 1871. p.83.

Nason. Newcomb Tourmalines. Mus. bul. 4. 1888. p.5-10.

Whitlock. Tourmalin. Mus. bul. 58. 1902. p.107.

Tracheata (paleozoic). Clarke. Type Specimens in New York State Museum. Mus. bul. 65. *In press*.

Transition argillite. Horton. Transition Argillite. Geol. rep. 1st dist. (for 1838) 1839. p.141-45.

See also Hudson river group; Utica shale.

Transition limerock (Eaton), *see* Black river limestone.

Transition sandrock (Eaton), *see* Calciferous sandrock.

Transition system. Conrad. Organic Remains of Lower Transition or Silurian System. Pal. rep. (for 1837) 1838. p.107-19; (for 1838) 1839. p.57-66; (for 1839) 1840. p.200-7; (for 1840) 1841. p.25-41.

Conrad. Table of Formations, showing the Order of Superposition and some Characteristic Fossils of the Transition Strata. Pal. rep. (for 1838) 1839. p.62-63.

Emmons. Use of Term. Geol. N. Y. pt2. 1842. p.21-22.

Vanuxem. Advantages of Study in United States. Geol. rep. 4th dist. (for 1836) 1837. p.204-9 (ed.2, p.206-11).

See also New York series.

Trap. Cushing. Diabase of Franklin County. Geol. rep. 18 (for 1898) 1899. p.117-22. *Same*, Mus. rep. 52 (for 1898) 1900. 2:117-22.

Emmons. Trap; Greenstone Trap. Geol. N. Y. pt2. 1842. p.82-84.

Emmons. Trap, Porphyry or Volcanic Rocks of Essex County. Geol. N. Y. pt2. 1842. p.263-65.

Emmons. Trap or Igneous Rocks of Warren County. Geol. N. Y. pt2. 1842. p.184-85.

Hall. Trappean Rocks. Pal. N. Y. 1859. 3:78-80.

Kümmel. Trap Rocks of Rockland County. Geol. rep. 18 (for 1898) 1899. p.22-42. *Same*, Mus. rep. 52 (for 1898) 1900. 2:22-42.

Leeds. Lithology of the Adirondacks. Mus. rep. 30 (for 1876) 1878. p.79-109.

Mather. Trap Rock Greenstone. Geol. rep. 1st dist. (for 1837) 1838. p.140.

Mather. Trap Rocks of Rockland and Orange Counties. Geol. rep. 1st dist. (for 1838) 1839. p.122-23.

Mather. Origin of Trap Rocks. Geol. N. Y. pt1. 1843. p.283.

Merrill. Road Materials. Mus. bul. 17. 1897. p.104. *Same*, Mus. rep. 50 (for 1896) 1898. 1:104 (2d paging).

— — — Mus. bul. 19. 1898. p.204. *Same*, Mus. rep. 51 (for 1897) 1899. 1:204.

Smock. Trap-rock. Mus. bul. 3. 1888. p.13; 10. 1890. p.205, 206-7.

— — — *revised* by Merrill. Mus. bul. 15. 1895. p.380. *Same*, Mus. rep. 48 (for 1894) 1895. 1:380 (2d paging).

— — — *revised* by Merrill. Mus. bul. 19. 1898. p.184. *Same*, Mus. rep. 51 (for 1897) 1899. 1:184.

Woodworth. The Northumberland Volcanic Plug; with Notes on the Petrography and Age of the Rock, by H. R. Cushing. Geol. rep. 21 (for 1901). *In press*.

See also Crystalline rocks; Dikes.

Trappean division. Mather. Trappean Division. Geol. N. Y. pt1. 1843. p.278-85.

Trees, *see* Forest trees; Fruit trees; Shade trees; Spruces.

Tremolite. Merrill. Tremolite. Mus. bul. 19. 1898. p.121. *Same*, Mus. rep. 51 (for 1897) 1899. 1:121.

Nason. Tremolite. Mus. bul. 4. 1888. p.8.

See also Amphibole.

Trench inclosures. Ground-plans and Dimensions of Several Trench Enclosures in Western New-York. Mus. rep. 2 (for 1848) 1849. 5pl.

Hough. Ancient Remains of Art in Jefferson and St Lawrence Counties. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.99-105. 5pl.; 4 (for 1850) 1851. p.103-9. 5pl.

Trenton group. Merrill. Trenton Group. Mus. bul. 19. 1898. p.147-49. *Same*, Mus. rep. 51 (for 1897) 1899. 1:147-49.

Trenton group (*continued*)

- Prosser & Cumings. Sections and Thickness of the Lower Silurian Formations on West Canada Creek and in the Mohawk Valley. Geol. rep. 15 (for 1895) 1897. p.615-59. *Same*, Mus. rep. 49 (for 1895) 1898. 2:615-59.
- Ruedemann. Trenton Conglomerate of Rysedorph Hill Rensselaer Co. N. Y. and its Fauna. Mus. bul. 49. 1901. p.3-114. 7pl.
- Ruedemann. Trenton Beds near Albany. Mus. bul. 42. 1901. p.533-38, 544-49. *Same*, Mus. rep. 54 (for 1900) 1902. 3:533-38, 544-49.
- Ruedemann. Clastic Development of Trenton in Hudson River Valley. Mus. bul. 42. 1901. p.558-61. *Same*, Mus. rep. 54 (for 1900) 1902. 3:558-61.
- Ruedemann. Discontinuity of Faunistic Succession in Trenton and Utica Beds. Mus. bul. 42. 1901. p.561-64. *Same*, Mus. rep. 54 (for 1900) 1902. 3:561-64.
- Smock. Quarries. Mus. bul. 3. 1888. p.94-134; 10. 1890. p.238-55.
 ——— *revised* by Merrill. Mus. bul. 15. 1895. p.432-47. *Same*, Mus. rep. 48 (for 1894) 1895. 1:432-47 (2d paging).
- Walcott. Descriptions of New Species of Fossils from the Trenton Group of New York. Mus. rep. 35 (for 1881) 1884. p.207-14. pl.17.
- Trenton limestone.** Bishop. Trenton Limestone of Erie County. Geol. rep. 15 (for 1895) 1897. p.391. *Same*, Mus. rep. 49 (for 1895) 1898. 2:391.
- Clarke & Schuchert. Trenton Limestone. *See* New York series.
- Conrad. Blue Fetid Limestones and Shales of Trenton Falls. Geol. rep. 3d dist. (for 1836) 1837. p.163-64 (ed. 2, p.165-66).
- ^aConrad. Trenton Limestone and Slate. Pal. rep. (for 1837) 1838. p.115; (for 1838) 1839. p.63; (for 1840) 1841. p.31.
- Cumings. Historical Sketch. Mus. bul. 34. 1900. p.124-26. *Same*, Mus. rep. 54 (for 1900) 1902. 1:424-26.
- Cushing. Trenton Limestone of Clinton County. Geol. rep. 13 (for 1893) 1894. p.476, 483-86. *Same*, Mus. rep. 47 (for 1893) 1894. p.670, 677-80.
 ——— Geol. rep. 15 (for 1895) 1897. p.514-73. *Same*, Mus. rep. 49 (for 1895) 1898. 2:514-73.
- Darton. Trenton Limestone of the Mohawk Valley. Geol. rep. 13 (for 1893) 1894. p.424-29. *Same*, Mus. rep. 47 (for 1893) 1894. p.618-23.
- Emerson. Notes upon Two Boulders of a Very Basic Eruptive Rock from the West Shore of Canandaigua Lake, and their Contact Phenomena upon the Trenton Limestone. Geol. rep. 12 (for 1892) 1893. p.105-9. *Same*, Mus. rep. 46 (for 1892) 1893. p.251-55.
- Emmons. Trenton Limestone. Geol. N. Y. pt2. 1842. p.112-16, 168. Ag. N. Y. 1846. 1:123.
- Emmons. Trenton Limestone in Clinton County. Geol. N. Y. pt2. 1842. p.319.
- Emmons. Trenton Limestone in Essex County. Geol. N. Y. pt2. 1842. p.277-78.
- Emmons. Trenton Limestone in Jefferson County. Geol. rep. 2d dist. (for 1839) 1840. p.325-26. Geol. N. Y. pt2. 1842. p.387-97.
- Emmons. Trenton Limestone in Warren County. Geol. N. Y. pt2. 1842. p.182-83.
- Emmons. Fossils. Geol. N. Y. pt2. 1842. p.114-15, 319, 389-97.
- Hall. Trenton Limestone. Geol. N. Y. pt4. 1843. p.29. Pal. N. Y. 1859. 3:11-14.
- Hall. Organic Remains. Geol. N. Y. pt4. 1843. p.29. Pal. N. Y. 1847. 1:60-249.

^aTerm first used by Conrad and Vanuxem in 1838.

Trenton limestone (*continued*)

- Hall. Description of New Species of Fossils and Observations upon Some Other Species previously not well Known from the Trenton Limestone. *Mus. rep.* 3 *rev. ed.* (for 1849) 1850. p.173-83. 5pl.
- Hall. Description of New Species of Crinoidea and Other Fossils from Strata of the Age of the Hudson-river Group and Trenton Limestone. *Mus. rep.* 24 (for 1870) 1872. p.205-24. pl.5-7.
- Kemp. Trenton Limestone of Essex County. *Geol. rep.* 13 (for 1893) 1894. p.446-72. *Same*, *Mus. rep.* 47 (for 1893) 1894. p.640-66.
- Kemp, Newland & Hill. Trenton Limestone of Adirondacks. *Geol. rep.* 18 (for 1898) 1899. p.146, 148-50. *Same*, *Mus. rep.* 52 (for 1898) 1900. 2:146, 148-50.
- Kemp & Hill. Trenton Limestone of Warren County. *Geol. rep.* 19 (for 1899) 1901. p.r26. *Same*, *Mus. rep.* 53 (for 1899) 1901. 1:r26.
- Lincklaen. Trenton Limestone; Fossils. *Mus. rep.* 14 (for 1860) 1861. p.44-48.
- Mather. Trenton and Mohawk Limestones. *Geol. rep.* 1st dist. (for 1840) 1841. p.97-101.
- Mather. Trenton Limestone Group. *Geol. N. Y.* pt1. 1843. p.397-402.
- Mather. Fossil Remains. *Geol. N. Y.* pt1. 1843. p.402.
- Merrill. Trenton Limestone. *Mus. bul.* 19. 1898. p.148-49. *Same*, *Mus. rep.* 51 (for 1897) 1899. 1:148-49.
- Ries. Trenton Limestones. *Geol. rep.* 17 (for 1897) 1899. p.359-62. *Same*, *Mus. rep.* 51 (for 1897) 1899. 2:359-62.
- — *revised.* *Mus. bul.* 44. 1901. p.755-58. *Same*, *Mus. rep.* 54 (for 1900) 1902. 3:755-58.
- Ries. Trenton Limestone of Clinton County. *Geol. rep.* 17 (for 1897) 1899. p.432. *Same*, *Mus. rep.* 51 (for 1897) 1899. 2:432.
- — *revised.* *Mus. bul.* 44. 1901. p.775-76. *Same*, *Mus. rep.* 54 (for 1900) 1902. 3:775-76.
- Ries. Trenton Limestone of Essex County. *Geol. rep.* 17 (for 1897) 1899. p.436-37. *Same*, *Mus. rep.* 51 (for 1897) 1899. 2:436-37.
- — *revised.* *Mus. bul.* 44. 1901. p.782. *Same*, *Mus. rep.* 54 (for 1900) 1902. 3:782.
- Ries. Trenton Limestones of Fulton County. *Mus. bul.* 44. 1901. p.783. *Same*, *Mus. rep.* 54 (for 1900) 1902. 3:783.
- Ries. Trenton Limestones of Herkimer County. *Geol. rep.* 17 (for 1897) 1899. p.438-39. *Same*, *Mus. rep.* 51 (for 1897) 1899. 2:438-39.
- — *revised.* *Mus. bul.* 44. 1901. p.788-89. *Same*, *Mus. rep.* 54 (for 1900) 1902. 3:788-89.
- Ries. Trenton Limestone of Jefferson County. *Mus. bul.* 44. 1901. p.789. *Same*, *Mus. rep.* 54 (for 1900) 1902. 3:789.
- Ries. Trenton Limestone of Lewis County. *Geol. rep.* 17 (for 1897) 1899. p.439-41. *Same*, *Mus. rep.* 51 (for 1897) 1899. 2:439-41.
- — *revised.* *Mus. bul.* 44. 1901. p.790, 791-92. *Same*, *Mus. rep.* 54 (for 1900) 1902. 3:790, 791-92.
- Ries. Trenton Limestone of Montgomery County. *Geol. rep.* 17 (for 1897) 1899. p.443-44. *Same*, *Mus. rep.* 51 (for 1897) 1899. 2:443-44.
- — *revised.* *Mus. bul.* 44. 1901. p.798-99. *Same*, *Mus. rep.* 54 (for 1900) 1902. 3:798-99.
- Ries. Trenton Limestones of Oneida County. *Geol. rep.* 17 (for 1897) 1899. p.445-46. *Same*, *Mus. rep.* 51 (for 1897) 1899. 2:445-46.
- — *revised.* *Mus. bul.* 44. 1901. p.802-3. *Same*, *Mus. rep.* 54 (for 1900) 1902. 3:802-3.
- Ries. Trenton Limestone of Orange County. *Geol. rep.* 15 (for 1895) 1897. p.400-1. *Same*, *Mus. rep.* 49 (for 1895) 1898. 2:400-1.

Trenton limestone (*continued*)

- Ries. Trenton-Chazy Limestones of St Lawrence County. Geol. rep. 17 (for 1897) 1899. p.453-54. *Same*, Mus. rep. 51 (for 1897) 1899. 2:453-54.
 ——— *revised*. Mus. bul. 44. 1901. p.812-13. *Same*, Mus. rep. 54 (for 1900) 1902. 3:812-13.
- Ries. Trenton Limestone of Saratoga County. Geol. rep. 17 (for 1897) 1899. p.453. *Same*, Mus. rep. 51 (for 1897) 1899. 2:453.
 ——— *revised*. Mus. bul. 44. 1901. p.815-16. *Same*, Mus. rep. 54 (for 1900) 1902. 3:815-16.
- Ries. Trenton Limestone of Warren County. Geol. rep. 17 (for 1897) 1899. p.459-60. *Same*, Mus. rep. 51 (for 1897) 1899. 2:459-60.
 ——— *revised*. Mus. bul. 44. 1901. p.824-25. *Same*, Mus. rep. 54 (for 1900) 1902. 3:824-25.
- Ries. Black Trenton Limestone of Washington County. Geol. rep. 17 (for 1897) 1899. p.461-62. *Same*, Mus. rep. 51 (for 1897) 1899. 2:461-62.
 ——— *revised*. Mus. bul. 44. 1901. p.827. *Same*, Mus. rep. 54 (for 1900) 1902. 3:827.
- Ries. Trenton Limestones of Westchester County. Geol. rep. 17 (for 1897) 1899. p.462-67. *Same*, Mus. rep. 51 (for 1897) 1899. 2:462-67.
- Smock. Trenton Limestone. Mus. bul. 3. 1888. p.21; 10. 1890. p.210-11.
 ——— *revised* by Merrill. Mus. bul. 15. 1895. p.426-27. *Same*, Mus. rep. 48 (for 1894) 1895. 1:426-27 (2d paging).
 ——— *revised* by Merrill. Mus. bul. 19. 1898. p.200-1. *Same*, Mus. rep. 51 (for 1897) 1899. 1:200-1.
- ^aVanuxem. Trenton Limestone. Geol. rep. 3d dist. (for 1837) 1838. p.255, 275, 283; (for 1839) 1840. p.364, 371. Geol. N. Y. pt3. 1842. p.45-56.
- Vanuxem. Trenton Limestone in Herkimer County. Geol. N. Y. pt3. 1842. p.256-57.
- Vanuxem. Trenton Limestone in Lewis County. Geol. N. Y. pt3. 1842. p.265, 268.
- Vanuxem. Trenton Limestone in Montgomery County. Geol. rep. 3d dist. (for 1837) 1838. p.258. Geol. N. Y. pt3. 1842. p.250.
- Vanuxem. Trenton Limestone in Oneida County. Geol. rep. 3d dist. (for 1837) 1838. p.275. Geol. N. Y. pt3. 1842. p.259-60.
- Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.45-48, 50, 55.
- Walcott. Descriptions of New Species of Fossils from the Trenton Limestone. Mus. rep. 28 (for 1874) 1879. p.93-97.
- Walcott. Some Sections of Trilobites from the Trenton Limestone. Mus. rep. 31 (for 1877) 1879. p.61-63. 1pl.
- Walcott. Descriptions of New Species of Fossils from the Chazy and Trenton Limestones. Mus. rep. 31 (for 1877) 1879. p.68-71.
- White. Trenton Formation of Herkimer, Oneida and Lewis Counties. Mus. rep. 51 (for 1897) 1899. 1:r29-33.
- Triassic.** Merrill. Triassic System. Mus. bul. 19. 1898. p.171-72. *Same*, Mus. rep. 51 (for 1897) 1899. 1:171-72.
- Merrill. Life of the Triassic. Mus. bul. 19. 1898. p.172. *Same*, Mus. rep. 51 (for 1897) 1899. 1:172.
- Smock. New Red Sandstone. Mus. bul. 3. 1888. p.19.
- Smock. Triassic Formation. Mus. bul. 10. 1890. p.225-26.
 ——— *revised* by Merrill. Mus. bul. 15. 1895. p.390-91. *Same*, Mus. rep. 48 (for 1894) 1895. 1:390-91 (2d paging).
 ——— *revised* by Merrill. Mus. bul. 19. 1898. p.195. *Same*, Mus. rep. 51 (for 1897) 1899. 1:195.
- Smock. Quarries. Mus. bul. 3. 1888. p.92-93; 10. 1890. p.278.

^aTerm first used by Conrad and Vanuxem in 1838.

Triassic (*continued*)

— — — revised by Merrill. Mus. bul. 15. 1895. p.419. *Same*, Mus. rep. 48 (for 1894) 1895. 1:419 (2d paging).

See also New red sandstone.

Tricholoma. Peck. New York Species of Tricholoma. Bot. rep. 44 (for 1890) 1891. p.38-64. *Same*, Mus. rep. 44 (for 1890) 1892. p.150-76.

Trichoptera, *see* Neuropteroid insects.

Trilobita, *see* Crustacea.

Triplite. Beck. Triplite. Min. N. Y. 1842. p.455.

Troostite. Beck. Troostite. Min. N. Y. 1842. p.456.

See also Willemite.

Troy. Aldrich. Partial List of Shells found near Troy, N. Y. Mus. rep. 22 (for 1868) 1869. p.17-24.

Smock. Stone Construction in. Mus. bul. 10. 1890. p.330-31.

Tufa, *see* Calcareous tufa; Ferruginous tufa.

Tuliptree scale insect. Felt. Tulip Tree Scale Insect. Ent. rep. 14 (for 1898) 1898. p.213-16. (Mus. bul. 23). *Same*, Mus. rep. 52 (for 1898) 1900. 1:213-16.

Tully limestone. Clarke. Tully Limestone. Geol. rep. 15 (for 1895) 1897. p.42. *Same*, Mus. rep. 49 (for 1895) 1898. 2:42.

Clarke. Tully Limestone of Ontario County. Geol. rep. 4 (for 1884) 1885. p.17.

Clarke. Tully Fauna. Mus. bul. 52. 1902. p.669-70.

Clarke & Schuchert. Tully Limestone. *See* New York series.

Conrad. Tully Limestone. Pal. rep. (for 1840) 1841. p.31.

Delafield. Tully Limestone of Seneca County. Ag. Soc. Trans. 10 (for 1850) 1851. p.457-61.

Emmons. Tully Limestone. Ag. N. Y. 1846. 1:186.

Evans. Tully Limestone of Madison County. Ag. Soc. Trans. 11 (for 1851) 1852. p.700.

Geddes. Tully Limestone of Onondaga County. Ag. Soc. Trans. 19 (for 1859) 1860. p.253-54.

Hall. Tully Limestone. Geol. N. Y. pt4. 1843. p.212-16.

Hall. Tully Limestone in Erie County. Geol. rep. 4th dist. (for 1840) 1841. p.164. Geol. N. Y. pt4. 1843. p.473.

Hall. Tully Limestone in Ontario County. Geol. rep. 4th dist. (for 1838) 1839. p.313. Geol. N. Y. pt4. 1843. p.457.

Hall. Tully Limestone in Seneca County. Geol. rep. 4th dist. (for 1838) 1839. p.300-1. Geol. N. Y. pt4. 1843. p.452.

Hall. Tully Limestone in Tompkins County. Geol. rep. 4th dist. (for 1838) 1839. p.317. Geol. N. Y. pt4. 1843. p.475.

Hall. Tully Limestone in Yates County. Geol. rep. 4th dist. (for 1838) 1839. p.315. Geol. N. Y. pt4. 1843. p.458.

Hall. Organic Remains. Geol. N. Y. pt4. 1843. p.215-16.

Lincklaen. Tully Limestone; Fossils. Mus. rep. 14 (for 1860) 1861. p.68.

Lincoln. Tully Limestone of Seneca County. Geol. rep. 14 (for 1894) 1895. p.95-97, 102-3. *Same*, Mus. rep. 48 (for 1894) 1895. 2:95-97, 102-3.

Loomis. The Dwarf Fauna of the Pyrite Layer at the Horizon of the Tully limestone in Western New York. Pal. rep. (for 1902). *In press*.

Luther. Tully Limestone. Geol. rep. 16 (for 1896) 1899. p.220-21. *Same*, Mus. rep. 50 (for 1896) 1899. 2:220-21.

Luther. Tully Limestone in Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p.38-42. *Same*, Mus. rep. 47 (for 1893) 1894. p.232-36.

Luther. Tully Limestone in Onondaga County. Geol. rep. 15 (for 1895) 1897. p.282-84. *Same*, Mus. rep. 49 (for 1895) 1898. 2:282-84.

Tully limestone (*continued*)

- Merrill. Tully Limestone. Mus. bul. 19. 1898. p.163. *Same*, Mus. rep. 51 (for 1897) 1899. 1:163.
- Ries. Tully Limestone. Mus. bul. 44. 1901. p.766. *Same*, Mus. rep. 54 (for 1900) 1902. 3:766.
- Ries. Tully Limestone in Seneca County. Mus. bul. 44. 1901. p.819. *Same*, Mus. rep. 54 (for 1900) 1902. 3:819.
- Ries. Tully Limestone in Tompkins County. Mus. bul. 44. 1901. p.819-20. *Same*, Mus. rep. 54 (for 1900) 1902. 3:819-20.
- Smock. Tully Limestone. Mus. bul. 10. 1890. p.213.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.429. *Same*, Mus. rep. 48 (for 1894) 1895. 1:429 (2d paging).
- — — *revised* by Merrill. Mus. bul. 19. 1898. p.202-3. *Same*, Mus. rep. 51 (for 1897) 1899. 1:202-3.
- ^aVanuxem. Tully Limestone. Geol. rep. 3d dist. (for 1838) 1839. p.278; (for 1839) 1840. p.381. Geol. N. Y. pt3. 1842. p.163-67.
- Vanuxem. Tully Limestone in Cayuga County. Geol. N. Y. pt3. 1842. p.289.
- Vanuxem. Tully Limestone in Chenango County. Geol. N. Y. pt3. 1842. p.292.
- Vanuxem. Tully Limestone in Madison County. Geol. N. Y. pt3. 1842. p.277.
- Vanuxem. Tully Limestone in Onondaga County. Geol. N. Y. pt3. 1842. p.285.
- Vanuxem. Tully Limestone in Tompkins County. Geol. N. Y. pt3. 1842. p.298.
- Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.164-65.
- Williams. Tully Limestone, its Distribution and its Known Fossils. Geol. rep. 6 (for 1886) 1887. p.13-29. map.
Map showing geographic distribution of Tully limestone in central New York, 37.5x19cm.
- Wright. Tully Limestone in Yates County. Mus. rep. 35 (for 1881) 1884. p.202-3.
- Tungsten.** Beck. Tungsten. Min. N. Y. 1842. p.456.
- Tungstic ocher.** Beck. Tungstic Ochre. Min. N. Y. 1842. p.456.
- Tunicata.** De Kay. Tunicata. Zool. N. Y. 1843. v.5, pt5, p.258-60.
- Turpentine bark beetle.** Felt. Turpentine Bark Beetle. Forest, Fish and Game Com. rep. 7 (for 1901). *In press*.
- Turquoise.** Whitlock. Turquoise. Mus. bul. 58. 1902. p.121.
- Turtles,** *see* Reptiles.
- Tussock moth.** Felt. White Marked Tussock Moth. Ent. rep. 14 (for 1898) 1898. p.163-76. (Mus. bul. 23). *Same*, Mus. rep. 52 (for 1898) 1900. 1:163-76.
- — — Mus. bul. 27. 1899. p.41-44. *Same*, Mus. rep. 53 (for 1899) 1901. 1:41-44.
- — — Forest, Fish and Game Com. rep. 4 (for 1898) 1899. p.368-74.
- Lintner. White Marked Tussock Moth. Ent. rep. 2 (for 1882 and 1883) 1885. p.68-89.
- — — Ent. rep. 11 (for 1895) 1896. p.124-26. *Same*, Mus. rep. 49 (for 1895) 1897. 1:124-26.
- Ulexite.** Whitlock. Ulexite. Mus. bul. 58. 1902. p.123.
- Ulster county.** Beck. Lead or Zinc Mines of Sullivan and Ulster. Min. rep. (for 1838) 1839. p.49-53; (for 1840) 1841. p.6-8.
- Beck. Mineralogy. Min. rep. (for 1839) 1840. p.101-2.

Ulster county (continued)

- Clarke. Oriskany Fauna. Mus. mem. 3. 1900. p.72-75. *Same*, Mus. rep. 53 (for 1899) 1901. 2:72-75.
- Darton. Preliminary Report on Geology. Geol. rep. 13 (for 1893) 1894. p.289-372. pl. (phot.) maps (uncolored). *Same*, Mus. rep. 47 (for 1893) 1894. p.483-566. pl. (phot.) maps (uncolored).
- Dickinson. Bluestone Quarries. Mus. bul. 61. *In press*.
- Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.571-72 (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:571-72.
- — — Ent. rep. 16 (for 1900) 1901. p.1022-23. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1022-23.
- — — Ent. rep. 17 (for 1901) 1902. p.797. (Mus. bul. 53).
- — — Ent. rep. 18 (for 1902). p.151-52. *In press*.
- Mather. Economical Geology. Geol. rep. 1st dist. (for 1839) 1840. p.213-58.
- Mather. Hudson River Group. Geol. N. Y. pt1. 1843. p.372-74.
- Mather. Dip and Strike of Rocks. Geol. N. Y. pt1. 1843. p.619-20.
- Merrill. Hudson River Bluestone Quarries. Mus. bul. 15. 1895. p.463-84. *Same*, Mus. rep. 48 (for 1894) 1895. 1:463-84 (2d paging).
- Nason. Economic Geology. Geol. rep. 13 (for 1893) 1894. p.373-406. pl. (phot.) *Same*, Mus. rep. 47 (for 1893) 1894. p.567-600. pl. (phot.)
- Prosser. Distribution of the Middle and Upper Devonian. Geol. rep. 17 (for 1897) 1899. p.289-304. *Same*, Mus. rep. 51 (for 1897) 1899. 2:289-304.
- Ries. Brick Yards. Mus. bul. 12. 1895. p.184-87, 213, 244-47. *Same*, Mus. rep. 48 (for 1894) 1895. 1:184-87, 213, 244-47 (2d paging).
- — — Mus. bul. 35. 1900. p.699-701, 732. *Same*, Mus. rep. 54 (for 1900) 1902. 2:699-701, 732.
- Ries. Limestones. Geol. rep. 17 (for 1897) 1899. p.455-59. *Same*, Mus. rep. 51 (for 1897) 1899. 2:455-59.
- — — *revised*. Mus. bul. 44. 1901. p.820-21. *Same*, Mus. rep. 54 (for 1900) 1902. 3:820-24.
- Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.51-52, 73-78, 95-97; 10. 1890. p.238-39, 259, 267.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.394, 402, 433-34. *Same*, Mus. rep. 48 (for 1894) 1895. 1:394, 402, 433-34 (2d paging).
- Smock. Carbonate ores. Mus. bul. 7. 1889. p.13-14, 65.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.541-42. *Same*, Mus. rep. 48 (for 1894) 1895. 1:541-42 (2d paging).
- — — *revised* by Merrill. Mus. bul. 19. 1898. p.222. *Same*, Mus. rep. 51 (for 1897) 1899. 1:222.
- Ulsterian.** ^aClarke & Schuchert. Ulsterian. Mus. mem. 3. 1900. p.11. *Same*, Mus. rep. 53 (for 1899) 1901. 2:11.
- Ultramarine.** Ries. Ultramarine Manufacture. Mus. bul. 35. 1900. p.852. *Same*, Mus. rep. 54 (for 1900) 1902. 2:852.
- Unadilla river.** Prosser. The Devonian Section of Central New York along the Unadilla River. Geol. rep. 12 (for 1892) 1893. p.110-42. *Same*, Mus. rep. 46 (for 1892) 1893. p.256-88.
- Uncinulae.** Peck. Synopsis of New York Uncinulae. Alb. Inst. Trans. 1872. 7:213-17. 1pl.
- Unionidae.** Beecher. Some Abnormal and Pathologic Forms of Fresh-water Shells from the Vicinity of Albany, N. Y. Mus. rep. 36 (for 1882) 1883. p.51-55. 2pl.

^aFirst use of term in original publication of this article. Science. 1899. new ser. 10:377.

Unionidae (*continued*)

- De Kay. Unionidae. Zool. N. Y. 1843. v.5. pt5. p.187-204.
 List of the Unionidae of the Gould Collection. Mus. rep. 35 (for 1881) 1884. p.68-81.
 Marshall. Beaks of Unionidae inhabiting the Vicinity of Albany, N. Y. Mus. bul. 9. 1890. p.167-89. 1pl. (lith.)
 Marshall. Preliminary List of New York Unionidae. Mus. bul. 1. 1892. 20p.
 Marshall. Geographical Distribution of New York Unionidae. Mus. rep. 48 (for 1894) 1895. 1:45-99.
 Simpson. Anatomy and Physiology of *Anodonta fluviatilis*. Mus. rep. 35 (for 1881) 1884. p.169-91. pl.3-13.
 Unionidae of the New York State Collection. Mus. rep. 35 (for 1881) 1884. p.82-83.
 Unionidae of the General Collection. Mus. rep. 35 (for 1881) 1884. p.84-101.

See also Mollusca.

- Uplifts.** Hall. Uplifts, Dislocations and Undulations of the Strata in the Fourth District. Geol. N. Y. pt4. 1843. p.295-98.
 Vanuxem. Uplifts of the Mohawk. Geol. rep. 3d dist. (for 1837) 1838. p.255-57. Geol. N. Y. pt3. 1842. p.203-11.

See also Faults.

Upper black shale, see Black shale.

- Upper Helderberg group (Corniferous; Onondaga; Seneca).** Bishop. Upper Helderberg Group of Erie County. Geol. rep. 15 (for 1895) 1897. p.313-15. *Same*, Mus. rep. 49 (for 1895) 1898. 2:313-15.
 Clarke. Upper Helderberg Group in Ontario County. Geol. rep. 4 (for 1884) 1885. p.10.
 Hall. Upper Helderberg Group. Pal. N. Y. 1859. 3:42-45.
 Hall. Descriptions of New Species of Fossils from the Upper Helderberg, Hamilton and Chemung Groups. Mus. rep. 14 (for 1860) 1861. p.99-109; 15. (for 1861) 1862. p.27-155. illus. 11pl.
 Hall. Descriptions of New Species of Brachiopoda from the Upper Helderberg, Hamilton and Chemung Groups. Mus. rep. 16 (for 1862) 1863. p.19-37.
 Hall. Fossil Brachiopoda of the Upper Helderberg, Hamilton, Portage and Chemung Groups. Pal. N. Y. 1867. v.4. 428p. 99pl.
 Hall. Illustrations of Devonian Fossils of the Upper Helderberg, Hamilton and Chemung Groups. 1876.
 Hall. Gasteropoda, Pteropoda and Cephalopoda of the Upper Helderberg, Hamilton, Portage and Chemung Groups. Pal. N. Y. 1879. v.5. pt2. 492p. (v.1 text, v.2, 120pl.); 1888. v.7, supplement. 42p. 18pl.
 Hall. Bryozoans of the Upper Helderberg and Hamilton Groups. Alb. Inst. Trans. 1883. 10:145-97.
 Hall. Preliminary Notice of the Lamellibranchiate Shells of the Upper Helderberg, Hamilton and Chemung Groups. (preparatory for the Palaeontology of New York). Mus. rep. 35 (for 1881) 1884. p.215-406g.
 Hall. Descriptions of Fossil Corals from the Niagara and Upper Helderberg Groups. Mus. rep. 35 (for 1881) 1884. p.407-64. pl.23-30.
 Hall. Fossil Corals and Bryozoans of the Lower Helderberg Group, and Fossil Bryozoans of the Upper Helderberg Group. Geol. rep. 2 (for 1882) 1883. 33pl. and explanations.
 Hall. Lamellibranchiata: Monomyaria of the Upper Helderberg, Hamilton and Chemung Groups. Pal. N. Y. 1884. v.5. pt1. 268p. 45pl.; Dimyaria of the Upper Helderberg, Hamilton, Portage and Chemung Groups. Pal. N. Y. 1885. v.5. pt1. p.269-561. 51pl.

Upper Helderberg group (*continued*)

- Hall & Simpson. Corals and Bryozoa of the Upper Helderberg Group. Pal. N. Y. 1887. 6:69-174. pl.24-54.
- Hall & Clarke. Trilobites and Other Crustacea of the Oriskany, Upper Helderberg, Hamilton, Portage, Chemung and Catskill Groups. Pal. N. Y. 1888. v.7. 236p. 46pl.
- Lincklaen. Upper Helderberg Limestones; Fossils. Mus. rep. 14 (for 1860) 1861. p.60-65.
- Lincoln. Upper Helderberg Group of Seneca County. Geol. rep. 14 (for 1894) 1895. p.87-92, 102. *Same*, Mus. rep. 48 (for 1894) 1895. 2:87-92, 102.
- Luther. Upper Helderberg Group of Onondaga County. Geol. rep. 15 (for 1895) 1897. p.275-79. *Same*, Mus. rep. 49 (for 1895) 1898. 2:275-79.
- Merrill. Upper Helderberg or Corniferous Limestone. Mus. bul. 19. 1898. p.160. *Same*, Mus. rep. 51 (for 1897) 1899. 1:160.
- Smock. Upper Helderberg Group. Mus. bul. 3. 1888. p.22; 10. 1890. p.212-13.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.428. *Same*, Mus. rep. 48 (for 1894) 1895. 1:428 (2d paging).
- — *revised* by Merrill. Mus. bul. 19. 1898. p.202. *Same*, Mus. rep. 51 (for 1897) 1899. 1:202.
- Smock. Quarries. Mus. bul. 3. 1888. p.94-134; 10. 1890. p.238-55.
- — *revised* by Merrill. Mus. bul. 15. 1895. p.432-47. *Same*, Mus. rep. 48 (for 1894) 1895. 1:432-47 (2d paging).
- See also* Corniferous limestone; Onondaga limestone; Seneca limestone.
- Upper Pentamerus limestone**, *see* Becraft limestone; Pentamerus limestone; Scutella limestone.
- Upper Secondary system.** Mather. Upper Secondary System. Geol. N. Y. pt.1. 1843. p.248-94.
- Upper shaly limestone.** Darton. Upper Shaly Limestone of Ulster County. Geol. rep. 13 (for 1893) 1894. p.303-4. *Same*, Mus. rep. 47 (for 1893) 1894. p.497-98.
- Ries. Upper Shaly Limestone of Ulster County. Geol. rep. 17 (for 1897) 1899. p.456. *Same*, Mus. rep. 51 (for 1897) 1899. 2:456.
- Upper Silurian.** Clarke, Ruedemann & Luther. Contact Lines of Upper Siluric Formations on the Brockport and Medina Quadrangles. Mus. bul. 52. 1902. p.517-23.
- Hall. Organic Remains. Pal. N. Y. v.2. 1852.
- Merrill. Upper Silurian System. Mus. bul. 19. 1898. p.150-58. *Same*, Mus. rep. 51 (for 1897) 1899. 1:150-58.
- Merrill. Life of the Upper Silurian. Mus. bul. 19. 1898. p.158. *Same*, Mus. rep. 51 (for 1897) 1899. 1:158.
- See also* names of subdivisions; *also* names of classes of fossils, i. e. Brachiopoda, Cephalopoda, etc.
- Uraninite.** Beck. Uranite. Min. N. Y. 1842. p.456.
- Whitlock. Uraninite. Mus. bul. 58. 1902. p.123.
- Utica.** Smock. Stone Construction in. Mus. bul. 10. 1890. p.333-36.
- Utica shale (Black shale).** Beecher. List of Species of Fossils from an Exposure of the Utica Slate and Associated Rocks in the Limits of Albany, N. Y. Mus. rep. 36 (for 1882) 1883. p.78.
- Clarke & Schuchert. Utica Shale. *See* New York series.
- Conrad. Blue Fetid Limestones and Shales of Trenton Falls. Geol. rep. 3d dist. (for 1836) 1837. p.163-64 (ed.2, p.165-66).
- Cummings. Historical Sketch. Mus. bul. 34. 1900. p.426-28. *Same*, Mus. rep. 54 (for 1900) 1902. 1:426-28.
- Cushing. Utica Slate of Clinton County. Geol. rep. 15 (for 1895) 1897. p.515-73. *Same*, Mus. rep. 49 (for 1895) 1898. 2:515-73.

Utica shale (*continued*)

- Darton. Utica Slate of the Mohawk Valley. Geol. rep. 13 (for 1893) 1894. p.426, 429. *Same*, Mus. rep. 47 (for 1893) 1894. p.620, 623.
- a*Emmons. Utica Slate. Geol. N. Y. pt2. 1842. p.116-18. Ag. N. Y. 1846. 1:123-24
- Emmons. Utica Slate in Clinton County. Geol. N. Y. pt2. 1842. p.319-20.
- Emmons. Utica Slate in Essex County. Geol. N. Y. pt2. 1842. p.278-79.
- Emmons. Utica Slate in Jefferson County. Geol. N. Y. pt2. 1842. p.397-400.
- Emmons. Utica Slate in Warren County. Geol. N. Y. pt2. 1842. p.183-84.
- Emmons. Fossils. Geol. N. Y. pt2. 1842. p.117, 279, 399-400.
- Hall. Utica Slate. Geol. N. Y. pt4. 1843. p.29.
- Hall. Organic Remains. Geol. N. Y. pt4. 1843. p.29. Pal. N. Y. 1847. 1:250-314.
- Kemp. Utica Slate of Essex County. Geol. rep. 13 (for 1893) 1894. p.446-72. *Same*, Mus. rep. 47 (for 1893) 1894. p.640-66.
- Kemp, Newland & Hill. Utica Slate of Adirondacks. Geol. rep. 18 (for 1898) 1899. p.146, 150-52. *Same*, Mus. rep. 52 (for 1898) 1900. 2:146, 150-52.
- Lincklaen. Utica Slate; Fossils. Mus. rep. 14 (for 1860) 1861. p.49-50.
- Mather. Utica Slate. Geol. N. Y. pt1. 1843. p.390-96.
- Mather. Search for Coal in the Utica Slate Group. Geol. N. Y. pt1. 1843. p.391-93.
- Mather. Fossils of the Utica Slate. Geol. N. Y. pt1. 1843. p.393-96.
- Prosser & Cumings. Lower Silurian Formations on West Canada Creek and in the Mohawk Valley. Geol. rep. 15 (for 1895) 1897. p.639, 648-52. *Same*, Mus. rep. 49 (for 1895) 1898. 2:639, 648-52.
- Ruedemann. Utica Beds near Albany. Mus. bul. 42. 1901. p.519-33. *Same*, Mus. rep. 54 (for 1900) 1902. 3:519-33.
- Ruedemann. Discontinuity of Faunistic Succession in Trenton and Utica Beds. Mus. bul. 42. 1901. p.561-64. *Same*, Mus. rep. 54 (for 1900) 1902. 3:561-64.
- a*Vanuxem. Utica Slate. Geol. N. Y. pt3. 1842. p.56-60.
- Vanuxem. Utica Slate in Herkimer County. Geol. N. Y. pt3. 1842. p.257.
- Vanuxem. Utica Slate in Lewis County. Geol. N. Y. pt3. 1842. p.265, 269.
- Vanuxem. Utica Slate in Montgomery County. Geol. N. Y. pt3. 1842. p.249.
- Vanuxem. Utica Slate in Oneida County. Geol. N. Y. pt3. 1842. p.260-61.
- Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.56-57.
- Walcott. Utica Slate and Related Formations of the Same Geological Horizon. Alb. Inst. Trans. 1883. 10:1-17.
Read before the Albany Institute, Mar. 18, 1879.
- Walcott. Fossils of the Utica Slate. Alb. Inst. Trans. 1883. 10:18-38.
Read before the Albany Institute, Mar. 18, 1879.
- See also* Black shale; Mohawk slate.
- Valleys.** Hall. Valleys of Western New York. Geol. rep. 4th dist. (for 1839) 1840. p.431-44.
- Mather. Valleys. Geol. N. Y. pt3. 1842. p.147-48, 271-72.
- Vanuxem. Excavations, Valleys. Geol. N. Y. pt3. 1842. p.235-37.
- Vanadinite.** Whitlock. Vanadinite. Mus. bul. 58. 1902. p.119.
- Variegated sandstone,** *see* Medina sandstone.
- Vauquelinite.** Beck. Vauquelinite. Min. N. Y. 1842. p.418.

- Veins.** Vanuxem. Theory of Veins. Geol. rep. 4th dist. (for 1836) 1837. p.201-4 (ed.2, p.203-6).
- Verd antique.** Beck. Verd Antique. Min. rep. (for 1838) 1839. p.40-41. Min. N. Y. 1842. p.58, 273.
Emmons. Verd Antique. Geol. rep. 2d dist. (for 1837) 1838. p.205-6.
Mather. Verd Antique of Rockland and Orange Counties. Geol. rep. 1st dist. (for 1838) 1839. p.131-32.
Smock. Quarries. Mus. bul. 3. 1888. p.44. 10. 1890. p.237-38.
— — — revised by Merrill. Mus. bul. 15. 1895. p.432. *Same*, Mus. rep. 48 (for 1894) 1895. 1:432 (2d paging).
- Vermes (paleozoic).** Clarke. Type Specimens in New York State Museum. Mus. bul. 65. *In press*.
- Vermes, see also Annelida.**
- Vermicular limerock.** Vanuxem. Vermicular Limerock. Geol. N. Y. pt3. 1842. p.101, 273, 279.
- Vermont.** Emmons. New York System in Vermont. Geol. N. Y. pt2. 1842. p.279-82.
Emmons. Section of the Champlain Group at Highgate, Vt. Geol. N. Y. pt2. 1842. p.321-22.
- Vertebrata, see Batrachia; Birds; Fishes; Mammals; Reptiles.**
- Vertebrata (paleozoic), see Fishes.**
- Vesuvianite.** Whitlock. Vesuvianite. Mus. bul. 58. 1902. p.101.
See also Idocrase.
- Vitreous copper, see Chalcocite.**
- Vitreous silver, see Argentite.**
- Vivianite.** Beck. Vivianite. Min. N. Y. 1842. p.401-2.
Whitlock. Vivianite. Mus. bul. 58. 1902. p.120.
- Volcanic rocks, see Igneous rocks.**
- Volknerite.** Hunt. Volknerite. Mus. rep. 21 (for 1867) 1871. p.85.
- Wad.** Beck. Earthy Oxide of Manganese, or Wad. Min. rep. (for 1838) 1839. p.47-49. Min. N. Y. 1842. p.53-55, 406.
Mather. Wad of Columbia and Dutchess Counties. Geol. rep. 1st dist. (for 1837) 1838. p.156-58.
Mather. Wad. Earthy Oxide of Manganese. Geol. N. Y. pt1. 1843. p.121-22.
Merrill. Localities. Mus. bul. 15. 1895. p.581. *Same*, Mus. rep. 48 (for 1894) 1895. 1:581 (2d paging).
— — — Mus. bul. 19. 1898. p.233. *Same*, Mus. rep. 51 (for 1897) 1899. 1:233.
- Wadsworth gallery.** Description of Casts of Fossil Animals given by C. F. Wadsworth. Mus. rep. 18 (for 1864) 1865. p.17-52. illus.
- Wampum.** Beauchamp. Wampum and Shell Articles used by New York Indians. Mus. bul. 41. 1901. p.319-480. 28pl. (phot.) *Same*, Mus. rep. 54 (for 1900) 1902. 3:319-480. 28pl. (phot.)
List of authorities on wampum, p.321-26.
- Wappinger limestone.** Darton. Wappinger Limestone of Ulster County. Geol. rep. 13 (for 1893) 1894. p.311. *Same*, Mus. rep. 47 (for 1893) 1894. p.505.
- Warren county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.102-3; (for 1840) 1841. p.13-18.
Emmons. Warren County. Geol. rep. 2d dist. (for 1838) 1839. p.234-38. Geol. N. Y. pt2. 1842. p.170-93.
Emmons. Magnetic Ore. Geol. rep. 2d dist. (for 1839) 1840. p.319-21.
Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.572. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:572.

Warren county (*continued*)

- — — Ent. rep. 16 (for 1900) 1901. p.1023-24. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1023-24.
- — — Ent. rep. 17 (for 1901) 1902. p.797. (Mus. bul. 53).
- — — Ent. rep. 18 (for 1902). p.152. *In press*.
- Kemp & Newland.** Preliminary Report on the Geology of Washington, Warren and Parts of Essex and Hamilton Counties. Geol. rep. 17 (for 1897) 1899. p.499-553. pl. (phot.) maps (uncolored). *Same*, Mus. rep. 51 (for 1897) 1899. 2:499-553. pl. (phot.) maps (uncolored).
- Kemp, Newland & Hill.** Preliminary Report on the Geology of Hamilton, Warren and Washington Counties. Geol. rep. 18 (for 1898) 1899. p.137-62. maps. *Same*, Mus. rep. 52 (for 1898) 1900. 2:137-62. maps.
- Kemp & Hill.** Precambrian Formations. Geol. rep. 19 (for 1899) 1901. p.r17-35. pl. (phot.) maps. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r17-35. pl. (phot.) maps.
Small, uncolored geologic maps.
Map of the "Noses" (colored).
- Ries.** Brick Yards. Mus. bul. 12. 1895. p.246. *Same*, Mus. rep. 48 (for 1894) 1895. 1:246 (2d paging).
- Ries.** Limestones. Geol. rep. 17 (for 1897) 1899. p.459-60. *Same*, Mus. rep. 51 (for 1897) 1899. 2:459-60.
- — — *revised*. Mus. bul. 44. 1901. p.824-25. *Same*, Mus. rep. 54 (for 1900) 1902. 3:824-25.
- Smock.** Building Stone Quarries. Mus. bul. 3. 1888. p.44, 101-2; 10. 1890. p.237-38, 241-42.
— — — *revised* by Merrill. Mus. bul. 15. 1895. p.432, 434-36. *Same*, Mus. rep. 48 (for 1894) 1895. 1:432, 434-36 (2d paging).
- Warwick limestone**, *see* Calciferous sandrock.
- Warwickite.** Beck. Warwickite. Min. N. Y. 1842. p.436-37.
- Washington county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.103; (for 1840) 1841. p.13-18.
- Felt.** Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.572-73. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:572-73.
- — — Ent. rep. 16 (for 1900) 1901. p.1024. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1024.
- Fitch.** A Historical, Topographical and Agricultural Survey of. Ag. Soc. Trans. 8 (for 1848) 1849. p.875-975; 9 (for 1849) 1850. p.753-944. map.
Map of Washington county by Asa Fitch (uncolored) 36x13cm, v.9.
- Hall.** Note on Some Obscure Organisms in the Roofing Slates of Washington County, N. Y. Mus. rep. 39 (for 1885) 1886. p.160. pl.11.
- Kemp & Newland.** Preliminary Report on the Geology of Washington, Warren and Parts of Essex and Hamilton Counties. Geol. rep. 17 (for 1897) 1899. p.499-553. pl. (phot.) maps (uncolored). *Same*, Mus. rep. 51 (for 1897) 1899. 2:499-553. pl. (phot.) maps (uncolored).
- Kemp, Newland & Hill.** Preliminary Report on the Geology of Hamilton, Warren and Washington Counties. Geol. rep. 18 (for 1898) 1899. p.137-62. maps. *Same*, Mus. rep. 52 (for 1898) 1900. 2:137-62. maps.
- Mather.** Geological Phenomena and Resources. Geol. rep. 1st dist. (for 1840) 1841. p.63-112.
- Mather.** Hudson River Group. Geol. N. Y. pt1. 1843. p.381.
- Mather.** Taconic Rocks. Geol. N. Y. pt1. 1843. p.422-33.
- Mather.** Metamorphic Rocks. Geol. N. Y. pt1. 1843. p.485-87.
- Mather.** Primary Rocks. Geol. N. Y. pt1. 1843. p.550-58.
- Mather.** Magnetic Iron Ore. Geol. N. Y. pt1. 1843. p.575-76.
- Mather.** Dip and Strike of Rocks. Geol. N. Y. pt1. 1843. p.615-16.

Washington county (*continued*)

- Nevius. Roofing Slate Quarries of Washington County. Geol. rep. 19 (for 1899) 1901. pl. (phot.) p.135-50. *Same*, Mus. rep. 53 (for 1899) 1901. pl. (phot.) 1:135-50.
- Ries. Brick Yards. Mus. bul. 12. 1895. p.194, 246. *Same*, Mus. rep. 48 (for 1894) 1895. 1:194, 246 (2d paging).
- Mus. bul. 35. 1900. p.709. *Same*, Mus. rep. 54 (for 1900) 1902. 2:709.
- Ries. Limestones. Geol. rep. 17 (for 1897) 1899. p.460-62. *Same*, Mus. rep. 51 (for 1897) 1899. 2:460-62.
- *revised*. Mus. bul. 44. 1901. p.826-28. *Same*, Mus. rep. 54 (for 1900) 1902. 3:826-28.
- Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.45, 99-101, 102; 10. 1890. p.240-41, 242, 255-56.
- *revised* by Merrill. Mus. bul. 15. 1895. p.391, 434, 436. *Same*, Mus. rep. 48 (for 1894) 1895. 1:391, 434, 436 (2d paging).
- Smock. Slate Quarries. Mus. bul. 3. 1888. p.135-43; 10. 1890. p.280-81.
- *revised* by Merrill. Mus. bul. 15. 1895. p.421-23. *Same*, Mus. rep. 48 (for 1894) 1895. 1:421-23 (2d paging).
- *revised* by Merrill. Mus. bul. 19. 1898. p.196. *Same*, Mus. rep. 51 (for 1897) 1899. 1:196.
- Water.** Mather. Excavating Action of Water on Soft Strata. Geol. N. Y. pt.1. 1843. p.42-44.
- See also* Mineral springs; Springs.
- Water biscuit.** Clarke. The Water Biscuit of Squaw Island, Canandaigua Lake, N. Y. Mus. bul. 39. 1900. p.195-98. *Same*, Mus. rep. 54 (for 1900) 1902. 3:195-98.
- Waterfalls.** Hall. Waterfalls. Geol. N. Y. pt.4. 1843. p.377-404.
- ^aWaterlime.** Beck. Hydraulic or Water Limestones. Min. rep. (for 1838) 1839. p.23-31; (for 1840) 1841. p.11-12. Min. N. Y. 1842. p.75-82, 256. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.128.
- Bishop. Hydraulic Limestones of Erie County. Geol. rep. 15 (for 1895) 1897. p.312-13, 330-31, 338-41, 390. *Same*, Mus. rep. 49 (for 1895) 1898. 2:312-13, 330-31, 338-41, 390.
- Clarke. Waterlime Beds in Ontario County. Geol. rep. 4 (for 1884) 1885. p.10.
- Conrad. Hydraulic Limestone. Geol. rep. 3d dist. (for 1836) 1837. p.179 (ed. 2, p.181).
- Conrad. Water Lime Series. Pal. rep. (for 1839) 1840. p.202.
- Conrad. Hydraulic Limestone. Pal. rep. (for 1840) 1841. p.31.
- Darton. Salina Waterlime. Geol. rep. 13 (for 1893) 1894. p.216-18. *Same*. Mus. rep. 47 (for 1893) 1894. p.410-12.
- Darton. Salina Waterlime in Albany County. Geol. rep. 13 (for 1893) 1894. p.248. *Same*, Mus. rep. 47 (for 1893) 1894. p.442.
- Darton. Salina Waterlime in Ulster County. Geol. rep. 13 (for 1893) 1894. p.306-7. *Same*, Mus. rep. 47 (for 1893) 1894. p.500-1.
- Evans. Waterlime of Madison County. Ag. Soc. Trans. 11 (for 1851) 1852. p.697-98.
- Geddes. Waterlime of Onondaga County. Ag. Soc. Trans. 19 (for 1859) 1860. p.249-50.
- Hall. Waterlime Group. Geol. N. Y. pt.4. 1843. p.141-43. Pal. N. Y. 1859. 3:32.
- Hall. Hydraulic Limestone of Onondaga Salt Group. Geol. N. Y. pt.4. 1843. p.128-33.

^aTerm introduced by Gebhard. Am. Jour. Sci. ser. 1. 1835. 28:172-77.

Waterlime (*continued*)

- Hall. Hydraulic Limestone in Erie County. Geol. rep. 4th dist. (for 1840) 1841. p.154-56. Geol. N. Y. pt4. 1843. p.470-71.
- Hall. Hydraulic Limestone in Genesee County. Geol. rep. 4th dist. (for 1839) 1840. p.426-27. Geol. N. Y. pt4. 1843. p.465-66.
- Hall. Hydraulic Limestone in Livingston County. Geol. rep. 4th dist. (for 1839) 1840. p.416-18. Geol. N. Y. pt4. 1843. p.459-60.
- Hall. Hydraulic Cement in Monroe County. Geol. rep. 4th dist. (for 1837) 1838. p.342-44. Geol. N. Y. pt4. 1843. p.431-32.
- Hall. Hydraulic Cement in Niagara County. Geol. rep. 4th dist. (for 1837) 1838. p.368. Geol. N. Y. pt4. 1843. p.447.
- Hall. Waterlime in Ontario County. Geol. rep. 4th dist. (for 1838) 1839. p.306-8. Geol. N. Y. pt4. 1843. p.455-56.
- Hall. Hydraulic Lime in Orleans County. Geol. rep. 4th dist. (for 1837) 1838. p.355. Geol. N. Y. pt4. 1843. p.438.
- Hall. Waterlime Series in Seneca County. Geol. rep. 4th dist. (for 1838) 1839. p.293.
- Hall. Hydraulic Lime in Wayne County. Geol. rep. 4th dist. (for 1837) 1838. p.324. Geol. N. Y. pt4. 1843. p.420.
- Hall. Fossils. Geol. N. Y. pt4. 1843. p.142.
- Hall. Crustacea. Pal. N. Y. 1859. 3:382-424.
- Hall. The Hydraulic Beds and Associated Limestones at the Falls of the Ohio. Alb. Inst. Trans. 1879. 9:169-80.
Read before the Albany Institute, Dec. 4, 1877.
- Lincklaen. Waterlime Group; Fossils. Mus. rep. 14 (for 1860) 1861. p.57-58.
- Luther. Waterlime Formation. Geol. rep. 16 (for 1896) 1899. p.211-13.
Same, Mus. rep. 50 (for 1896) 1899. 2:211-13.
- Luther. Hydraulic Limestone Beds of Onondaga County. Geol. rep. 15 (for 1895) 1897. p.267-72. *Same*, Mus. rep. 49 (for 1895) 1898. 2:267-72.
- Mather. Building Stones. Geol. N. Y. pt1. 1843. p.326-28.
- Mather. Water-lime Group. Geol. N. Y. pt1. 1843. p.349-52.
- Mather. Fossils. Geol. N. Y. pt1. 1843. p.349-51.
- Merrill. Waterlime. Mus. bul. 19. 1898. p.156. *Same*, Mus. rep. 51 (for 1897) 1899. 1:156.
- Ries. Salina Waterlime. Geol. rep. 17 (for 1897) 1899. p.369-70. *Same*, Mus. rep. 51 (for 1897) 1899. 2:369-70.
— — *revised*. Mus. bul. 44. 1901. p.764. *Same*, Mus. rep. 54 (for 1900) 1902. 3:764.
- Ries. Waterlime Beds of Albany County. Geol. rep. 17 (for 1897) 1899. p.430. *Same*, Mus. rep. 51 (for 1897) 1899. 2:430.
— — *revised*. Mus. bul. 44. 1901. p.771. *Same*, Mus. rep. 54 (for 1900) 1902. 3:771.
- Ries. Hydraulic Limestones of Erie County. Geol. rep. 17 (for 1897) 1899. p.435. *Same*, Mus. rep. 51 (for 1897) 1899. 2:435.
— — *revised*. Mus. bul. 44. 1901. p.780. *Same*, Mus. rep. 54 (for 1900) 1902. 3:780.
- Ries. Hydraulic Limestones of Onondaga County. Geol. rep. 17 (for 1897) 1899. p.447-48. *Same*, Mus. rep. 51 (for 1897) 1899. 2:447-48.
— — *revised*. Mus. bul. 44. 1901. p.804-6. *Same*, Mus. rep. 54 (for 1900) 1902. 3:804-6.
- Ries. Salina Waterlime of Ulster County. Geol. rep. 17 (for 1897) 1899. p.458-59. *Same*, Mus. rep. 51 (for 1897) 1899. 2:458-59.
— — *revised*. Mus. bul. 44. 1901. p.823. *Same*, Mus. rep. 54 (for 1900) 1902. 3:823.

Waterlime (*continued*)

Vanuxem. Waterlimes. Geol. rep. 3d dist. (for 1837) 1838. p.270-72, 285; (for 1838) 1839. p.272-74.

Vanuxem. Waterlime Group. Geol. N. Y. pt3. 1842. p.110-16.

Vanuxem. Waterlime Group in Cayuga County. Geol. N. Y. pt3. 1842. p.287.

Vanuxem. Waterlime Group in Herkimer County. Geol. N. Y. pt3. 1842. p.258.

Vanuxem. Waterlime Group in Madison County. Geol. N. Y. pt3. 1842. p.274.

Vanuxem. Waterlime Group in Oneida County. Geol. N. Y. pt3. 1842. p.263.

Vanuxem. Waterlime Group in Onondaga County. Geol. N. Y. pt3. 1842. p.283.

Vanuxem. Waterlime Group in Otsego County. Geol. N. Y. pt3. 1842. p.253.

Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.112.

See also Cement; Manlius limestone; Rondout waterlime; Tentaculite limestone.

Wavellite. Whitlock. Wavellite. Mus. bul. 58. 1902. p.121.

Waverly group. Beecher. A Spiral Bivalve Shell from the Waverly Group of Pennsylvania. Mus. rep. 39 (for 1885) 1886. p.161-63. pl.12.

Waverly sandstone. Hall. Observations upon the Genera Uphantaenia and Dictyophyton, with notices of some species from the Chemung group of New York and the Waverly sandstone of Ohio. Mus. rep. 16 (for 1862) 1863. p.84-91. illus. 4pl.

Hall. Preliminary Notice of Some Species of Crinoidea from the Waverly Sandstone Series of Summit County, Ohio, supposed to be of the age of the Chemung group of New York. Mus. rep. 17 (for 1863) 1864. p.50-60.

Published in advance in 1863.

Wayne county. Beck. Mineralogy. Min. rep. (for 1839) 1840. p.103-4.

Bishop. Natural Gas. Geol. rep. 17 (for 1897) 1899. p.27-28. *Same*, Mus. rep. 51 (for 1897) 1899. 2:27-28.

Bishop. Oil and Gas. Geol. rep. 19. (for 1899) 1901. p.r133. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r133.

Boyd. Wayne County. Geol. rep. 4th dist. (for 1837) 1838. p.312-26.

Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.573. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:573.

——— Ent. rep. 16 (for 1900) 1901. p.1024-25. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1024-25.

——— Ent. rep. 17 (for 1901) 1902. p.797-99. (Mus. bul. 53).

Hall. Wayne County. Geol. rep. 4th dist. (for 1838) 1839. p.326-29. Geol. N. Y. pt4. 1843. p.414-21.

Ries. Brick Yards. Mus. bul. 12. 1895. p.203. *Same*, Mus. rep. 48 (for 1894) 1895. 1:203 (2d paging).

——— Mus. bul. 35. 1900. p.718. *Same*, Mus. rep. 54 (for 1900) 1902. 2:718.

Ries. Limestone Formations. Mus. bul. 44. 1901. p.828. *Same*, Mus. rep. 54 (for 1900) 1902. 3:828.

Smock. Building Stone Quarries. Mus. bul. 10. 1890. p.261.

——— *revised* by Merrill. Mus. bul. 15. 1895. p.397. *Same*, Mus. rep. 48 (for 1894) 1895. 1:397 (2d paging).

Weeds. Peck. Weeds. Alb. Inst. Trans. 1893. 12:251-65.

Wenlock rocks. Conrad. Wenlock Rocks of Murchison. Pal. rep. (for 1837) 1838. p.111.

Wenlock rocks (*continued*)

Conrad. Wenlock Limestone and Shale. Pal. rep. (for 1839) 1840. p.202; (for 1840) 1841. p.31.

See also Esopus grit; Helderbergian; Onondaga salt group; Schoharie grit.

Wernerite. Whitlock. Wernerite. Mus. bul. 58. 1902. p.100-1.

West Canada creek. Prosser & Cumings. Sections and Thickness of the Lower Silurian Formations on West Canada Creek and in the Mohawk Valley. Geol. rep. 15 (for 1895) 1897. p.23-24, 615-59. pl. (phot.) *Same*. Mus. rep. 49 (for 1895) 1898. 2:23-24, 615-59. pl. (phot.)

Westchester county. Beck. Mineralogy. Min. rep. (for 1839) 1840. p.104-5; (for 1840) 1841. p.12-13.

Felt. Entomological Reports from. Ent. rep. 16 (for 1900) 1901. p.1025. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1025.

—— Ent. rep. 17 (for 1901) 1902. p.799. (Mus. bul. 53).

Mather. Economic Geology. Geol. rep. 1st dist. (for 1838) 1839. p.72-114.

Mather. Limestones. Geol. N. Y. pt1. 1843. p.452-63.

Mather. Limonites and Hematite. Geol. N. Y. pt1. 1843. p.488-89.

Mather. Primary Rocks. Geol. N. Y. pt1. 1843. p.525-34.

Mather. Miscellaneous Remarks. Geol. N. Y. pt1. 1843. p.542-49.

Mather. Dip and Strike of Rocks. Geol. N. Y. pt1. 1843. p.609-10.

Merrill. Geological Map, showing the Distribution of Rocks used as Building Stones, 22x35cm. Mus. bul. 15. 1895; description, p.370. *Same*, Mus. rep. 48 (for 1894) 1895, v.1; description, p.370 (2d paging).

Nevius. Emery Mines. Geol. rep. 19 (for 1899) 1901. p.151-54. pl. (phot.) *Same*, Mus. rep. 53 (for 1899) 1901. 1:151-54. pl. (phot.)

Ries. Brick Yards. Mus. bul. 12. 1895. p.176-79, 242. *Same*, Mus. rep. 48 (for 1894) 1895. 1:176-79, 242 (2d paging).

—— Mus. bul. 35. 1900. p.689-93. *Same*, Mus. rep. 54 (for 1900) 1902. 2:689-93.

Ries. Limestones. Geol. rep. 17 (for 1897) 1899. p.462-67. *Same*, Mus. rep. 51 (for 1897) 1899. 2:462-67.

—— *revised*. Mus. bul. 44. 1901. p.828-33. *Same*, Mus. rep. 54 (for 1900) 1902. 3:828-33.

Smock. Geological Reconnaissance in the Crystalline Rock Region: Dutchess, Putnam and Westchester Counties, N. Y. Mus. rep. 39 (for 1885) 1886. p.165-85. map.

Map of Archaean areas of Highlands (uncolored) 11x18.5cm.

Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.25-28, 30, 37-41; 10. 1890. p.229-30, 231, 234-36.

—— *revised* by Merrill. Mus. bul. 15. 1895. p.376, 377, 429-31. *Same*, Mus. rep. 48 (for 1894) 1895. 1:376, 377, 429-31 (2d paging).

White iron pyrites, *see* Marcasite.

White lead ore, *see* Cerussite.

White limestone, *see* Primitive limestone.

White sandstone. Vanuxem. White sandstone. Geol. rep. 3d dist. (for 1837) 1838. p.285.

See also Oriskany sandstone.

Willemite. Hunt. Tephroite, Willemite. Mus. rep. 21 (for 1867) 1871. p.77. Whitlock. Willemite. Mus. bul. 58. 1902. p.100.

Witherite. Whitlock. Witherite. Mus. bul. 58. 1902. p.84-85.

Wolframite. Beck. Wolfram. Min. N. Y. 1842. p.457.

Whitlock. Wolframite. Mus. bul. 58. 1902. p.128.

Wollastonite. Beck. Tabular Spar. Min. rep. (for 1839) 1840. p.110. Min. N. Y. 1842. p.270-71. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.131.

Wollastonite (*continued*)

Hunt. Wollastonite. Mus. rep. 21 (for 1867) 1871. p.77.

Whitlock. Wollastonite. Mus. bul. 58. 1902. p.93.

Wood borers. Felt. Wood Borers. Forest, Fish and Game Com. rep.7 (for 1901). *In press*.

Felt & Joutel. Monograph of the Genus Saperda. Mus. bul. *In press*.

Woods. Catalogue of Specimens of New York Woods in Geological Hall. Mus. rep. 48 (for 1894) 1895. 1:16-20.

Dudley. Fungi Destructive to Wood. Mus. rep. 41 (for 1887) 1888. p.86-94.

— — — Bot. rep. 43 (for 1889) 1890. p.45-47. *Same*, Mus. rep. 43 (for 1889) 1890. p.91-93.

World's Fair exhibit. Museum Exhibit. Mus. rep. 47 (for 1893) 1894. p.23-29, 40-75; 48 (for 1894) 1895. 1:14-15.**Wulfenite.** Beck. Yellow Lead Ore. Min. N. Y. 1842. p.416-17.

Whitlock. Wulfenite. Mus. bul. 58. 1902. p.128-29.

Wyoming county. Bishop. Salt Wells of Western New York. Geol. rep. 5 (for 1885) 1886. p.12-47.

Bishop. On a Locality of Flint Implements in Wyoming County, N. Y. Geol. rep. 8 (for 1888) 1889. p.92-94. 1pl. in Geol. rep. 9. *Same*, Mus. rep. 42 (for 1888) 1889. p.438-40. 1pl. in Mus. rep. 43.

Bishop. Natural Gas. Geol. rep. 17 (for 1897) 1899. p.23-25. *Same*, Mus. rep. 51 (for 1897) 1899. 2:23-25.

Bishop. Oil and Gas. Geol. rep. 19 (for 1899) 1901. p.r133. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r133.

Dickinson. Bluestone Quarries. Mus. bul. 61. *In press*.

Felt. Entomological Reports from. Ent. rep. 16 (for 1900) 1901. p.1025-26. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1025-26.

— — — Ent. rep. 17 (for 1901) 1902. p.799-800. (Mus. bul. 53).

— — — Ent. rep. 18 (for 1902). p.152. *In press*.

Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.84-85; 10. 1890. p.274-75.

— — — *revised* by Merrill. Mus. bul. 15. 1895. p.408. *Same*, Mus. rep. 48 (for 1894) 1895. 1:408 (2d paging).

Yates county. Beck. Mineralogy. Min. rep. (for 1839) 1840. p.105.

Bishop. Oil and Gas. Geol. rep. 19 (for 1899) 1901. p.r134. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r134.

Clarke. Oneonta, Ithaca and Portage Groups. Geol. rep. 15 (for 1895) 1897. p.63-81. *Same*, Mus. rep. 49 (for 1895) 1898. 2:63-81.

Clarke. Geological Map showing Distribution of Portage Group. Geol. rep. 15 (for 1895) 1897. facing p.60. *Same*, Mus. rep. 49 (for 1895) 1898. v.2, facing p.60.

Dickinson. Bluestone Quarries. Mus. bul. 61. *In press*.

Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.573-75. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:573-75.

— — — Ent. rep. 16 (for 1900) 1901. p.1026. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1026.

Hall. Yates County. Geol. rep. 4th dist. (for 1838) 1839. p.314-17. Geol. N. Y. pt4. 1843. p.458-59.

Ries. Marl. Mus. bul. 44. 1901. p.833. *Same*, Mus. rep. 54 (for 1900) 1902. 3:833.

Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.83; 10. 1890. p.274.

— — — *revised* by Merrill. Mus. bul. 15. 1895. p.407. *Same*, Mus. rep. 48 (for 1894) 1895. 1:407 (2d paging).

Yates county (*continued*)

- Wright, B. H. Notes on the Geology. Mus. rep. 35 (for 1881) 1884. p.195-206. pl.15-16. map 24x21cm. (pl.16A).
 Wright, S. H. The Aboriginal Work on Bluff Point, Yates County, N. Y. Mus. rep. 35 (for 1881) 1884. p.193-94. pl.14.

Yellow lead ore, *see* Wulfenite.

Yonkers. Smock. Stone Construction in. Mus. bul. 10. 1890. p.319.

Yonkers gneiss. Eckel. Quarries. Geol. rep. 20 (for 1900) 1902. p.155-61.
Same, Mus. rep. 54 (for 1900) 1902. 1:r155-61.

Merrill. Yonkers Gneiss. Mus. rep. 50 (for 1896) 1898. 1:29-30 (1st paging).

Youngite. Mather. Youngite, Scapolite. Geol. N. Y. pt.1. 1843. p.513.

Yttrocrite. Beck. Yttrocrite. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.153.

Zeolites. Whitlock. Zeolites. Mus. bul. 58. 1902. p.108-10.

Zinc. Beck. Ores of Lead and Zinc. Min. rep. (for 1836) 1837. p.51-58 (ed. 2, p.53-60); (for 1840) 1841. p.6-8. Min. N. Y. 1842. p.44-52.

Beck. Red Zinc Ore. Min. N. Y. 1842. p.454.

Mather. Lead, Copper and Zinc Ores of Columbia and Dutchess Counties. Geol. rep. 1st dist. (for 1837) 1838. p.176-81.

Mather. Sulphuret of Zinc. Geol. N. Y. pt.1. 1843. p.500-9.

Vanuxem. Zinc. Geol. rep. 4th dist. (for 1836) 1837. p.200-1 (ed. 2, p.202-3).

Whitlock. Zinc. Mus. bul. 58. 1902. p.54, 70, 83, 100, 106.

Zinc blende, *see* Sphalerite.

Zincite. Hunt. Zincite. Mus. rep. 21 (for 1867) 1871. p.89.

Whitlock. Zincite. Mus. bul. 58. 1902. p.70.

Zircon. Beck. Zirconite. Min. N. Y. 1842. p.378-81. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.146-47.

Hunt. Zircon. Mus. rep. 21 (for 1867) 1871. p.84-85.

Nason. Zircon. Mus. bul. 4. 1888. p.8.

Whitlock. Zircon. Mus. bul. 58. 1902. p.101-2.

Zoologic collection of museum. Arrangement. Mus. rep. 42 (for 1888) 1889. p.43-45.

Catalogue of Mammalia and Birds. Ap. 11, 1848. Mus. rep. 1 (for 1847) 1848. p.7-20.

Catalogue of Quadrupeds, Birds, Reptiles, Fishes, etc. Mus. rep. 2, p.15-23; 3 *rev. ed.*, p.15-26, 42; 4, p.17-41; 5, p.15-34; 6, p.17-24; 7, p.13-26; 8, p.13-22; 9, p.11-38; 13, p.11-14; 18, p.11, 12-16; 19, p.39; 20, p.15; 21, p.14; 22, p.9, 14-16; 23, p.20-23; 24, p.17-19; 25, p.15-17; 26, p.17-18; 27, p.23-28; 28, p.17-21; 29, p.19-20; 30, p.13-14; 31, p.12-13; 32, p.10-12; 34, p.14-16; 35, p.14-15; 36, p.18; 37, p.27; 38, p.17; 39, p.16; 40, p.23; 41, p.29-30; 42, p.50-51; 43, p.15-17, 21-29; 44, p.22-24; 45, p.20-27; 46, p.21-27; 47, p.35-40; 49, 1:10; 50, 1:12-14; 51, 1:r19-20; 52, 1:r26-32; 53, 1:r166-70.

For dates of Mus. rep. *see* List of publications, p.241.

Catalogue of the Reptiles and Amphibians, Jan. 1, 1850. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.25-28.

De Rham collection. Catalogue. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.42-48; 4 (for 1850) 1851. p.28-41.

List of Deficiencies in the Mammalia, Birds, Reptiles and Amphibia inhabiting the State. Mus. rep. 13 (for 1859) 1860. p.15-16.

List of Deficiencies in the Mammalia, Birds, Reptiles and Amphibia. Mus. rep. 17 (for 1863) 1864. p.12-14.

See also Birds; Fishes; Mammals; Mollusca.

- Zoology.** Account of the Moose. Mus. rep. 5 (for 1851) 1852. p.29-31. 1pl.
Account of the Fisher or Black Cat. Mus. rep. 5 (for 1851) 1852.
p.33-34.
- Colvin. The Winter Fauna of Mount Marcy. Alb. Inst. Trans. 1879.
9:11-26.
- De Kay. Report on Zoological Department of Survey. Assembly doc.
1837, no.161, p.11-13 (ed. 2, p.13-15); 1840, no.50, p.7-36.
- De Kay. Zoology of New York, or, The New York Fauna. 1842-44. 5v.
illus. pl. maps sq. Q.
For contents, see List of publications, p.269.
- Marshall. Reports on the Zoological Department of State Museum. Mus.
rep. 45 (for 1891) 1892. p.15-19; 46 (for 1892) 1893. p.15-17; 47 (for 1893)
1894. p.30-32; 48 (for 1894) 1895. 1:639-40.
- References to Various Essays and Writings on the Natural History of
New York. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.155-60; 4 (for 1850)
1851. p.113-15; 5 (for 1851) 1852. p.55.
- Stevens. Report on Zoology. Alb. Inst. Trans. 1872. 7:132-43.
- See also Amphibia; Annelida; Batrachia; Birds; Crustacea; Fishes;
Mammals; Mollusca; Reptiles; Rhizopoda; Unionidae.
- Zoophyta (paleozoic).** Hall. Zoophyta of Lower Silurian. Pal. N. Y.
1847. v.1 (various page references, see Table, p.322).

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COMPILED UNDER THE DIRECTION OF
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- (?) *Acambona*. Geol. rep. 13. 1894.
2:797. Mus. rep. 47. 1894. p.991.
Pal. N. Y. 1894. v.8, pt 2, p.119.
- Acanthocladia*. Geol. rep. 14. 1895.
p.522. Mus. rep. 48. 1895. 2:522.
- Acanthoclema*. Geol. rep. 5. 1886.
expl. pl.25. Pal. N. Y. 1887.
6:xv. Geol. rep. 14. 1895. p.552.
Mus. rep. 48. 1895. 2:552.
- alternatum*. Pal. N. Y. 1887. 6:72.
- divergens*. Pal. N. Y. 1887. 6:73.
- hamiltonense*. Pal. N. Y. 1887.
6:191.
- ovatum*. Pal. N. Y. 1887. 6:73.
- scutulatum*. Pal. N. Y. 1887.
6:190.
- sulcatum*. Pal. N. Y. 1887. 6:192.
- triseriale*. Pal. N. Y. 1887. 6:74.
- Acanthocrinus?* Mus. rep. 15. 1862.
p.125.
- Acanthothyris*. Geol. rep. 13. 1894.
2:836. Mus. rep. 47. 1894.
p.1030.
- Acervularia inequalis*. Mus. rep.
23. 1873. p.233.
- Acidaspis*. Pal. N. Y. 1847. 1:240;
1888. 7:xxxv. Geol. rep. 10.
1891. p.61. Mus. rep. 44. 1892.
p.91.
- sp. indet.* Pal. N. Y. 1852. 2:299.
- sp.* Pal. N. Y. 1888. 7:71.
- callicera*. Pal. N. Y. 1888. 7:69.
- danai*. Mus. rep. 20. 1867. p.333.
- hamata*. Pal. N. Y. 1859. 3:371.
- parvula*. Mus. rep. 31. 1879. p.69.
- romingeri*. Pal. N. Y. 1888. 7:71.
- spiniger*. Pal. N. Y. 1847. 1:241.
- Acidaspis (continued)*
- trentonensis*. Pal. N. Y. 1847.
1:240.
- tuberculata*. Pal. rep. 1841. pl.
Pal. N. Y. 1859. 3:368. Mus.
mem. 3. 1900. p.25. Mus. rep.
53. 1900. 2:25.
- Acloedictya*. Mus. mem. 2. 1899.
p.177. Geol. rep. 16. 1899.
p.369. Mus. rep. 50. 1899. 2:369.
- (?) *eccentrica*. Mus. mem. 2. 1899.
p.179. Geol. rep. 16. 1899. p.371.
Mus. rep. 50. 1899. 2:371.
- marsipus*. Mus. mem. 2. 1899.
p.178. Geol. rep. 16. 1899. p.370.
Mus. rep. 50. 1899. 2:370.
- Acroculia*. Pal. N. Y. 1852. 2:288;
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- Volborthia*. Pal. N. Y. 1892. v.8,
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- Waldheimia deweyi*. Mus. rep. 10. 1857. p.89.
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Whitfieldia maria. Mus. mem. 1. 1889. p.73.
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