

A BIBLIOGRAPHY
OF
NATIONAL PARKS AND MONUMENTS
WEST OF THE MISSISSIPPI RIVER

VOL. II

Compiled at the Western Museum Laboratories
of the National Park Service with assistance
provided by the Work Projects Administration
and the Civilian Conservation Corps.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
1941

FOREWORD

Anticipating a curtailment in WPA activities, Volume I of this Bibliography was mimeographed and bound prior to the completion of Volume II. The WPA project at the Western Museum Laboratories was closed out before the present volume could be finished so that it was not possible to produce the book in bound form.

An examination of this volume will reveal that certain park and monument areas are not included. The pages for these areas were not completed and these sections are indicated as unfinished. If, at some future date, it is found possible to complete the missing pages, sets will be forwarded to all recipients of these volumes.

Dorr G. Yeager,
Assistant Chief, Museum Division.

NATURAL BRIDGES NATIONAL MONUMENT

Cummings, Byron S.

- 1910 The ancient inhabitants of the San Juan Valley. Univ. Utah, Bul., 3(no. 3, pt. II), 45 pp., (Nov.), illus.
Includes notes on archeological discoveries in the White Canyon, Natural Bridges National Monument.

- 1910 The great natural bridges of Utah. Natl. geog. mag., 21: [157]-67 (Jan.).
Description of the bridges of Natural Bridges National Monument and of Rainbow Bridge.

- 1910a The great natural bridges of Utah. Univ. Utah, Bul., 3 (no. 3, pt. I), 24 pp., (Nov.), illus., map.
Detailed description and explanation of the formation of the bridges of Natural Bridges National Monuments. Includes notes on natural bridges in general.

Dyar, W. W.

- 1904 The colossal bridges of Utah. Century illus. mo. mag., 68:505-11 (Aug.), illus.
Account of the discovery of the natural bridges and cliff dwellings now included in Natural Bridges National Monument.

Faris, John T.

- 1920 [Natural Bridges National Monument.] In his: Seeing the far west, pp. 51-53. Phila., J. B. Lippincott co.

Gould, C. N.

- 1937 Geological report on Natural Bridges National Monument. Southwestern mons. mo. rept., (Dec.), Supp.:473-77.

Hargrave, Lyndon L.

- 1934 A note on Poncho ruin, Utah. Am. anthro., n.s., 36:490 (July-Sept.).
Brief note on the discovery of a ruin near the Natural Bridges National Monument in 1933.

Hewett, Edgar L.

- 1930 [The Natural Bridges National Monument region.] In his: Ancient life in the American southwest, pp. 279-80. Indianapolis, Bobbs-Merrill co.
Description of the bridges and notes on the archeological interest of the region.

[Holmes, Edwin F.]

- 1907 The great natural bridges of Utah. Natl. geog. mag., 18: 199-204 (Mar.), illus.
Report of an exploration of the natural bridges area by the National Geographic Society.

SOUTHWESTERN NATIONAL MONUMENTS

James, George Wharton

- 1915 The colossal natural bridges of Utah. In his: Our American wonderlands, pp. 182-89, illus. Chicago, McClurg.
General description of the bridges and the surrounding area.

- 1922 The colossal bridges of Utah. In his: Utah, pp. 235-45, illus. Boston, Page.
Description of the three natural bridges of Natural Bridges National Monument and of Rainbow Bridge.

Johnson, Clifton

- 1919 Natural bridges in the desert, Utah. In his: What to see in America, pp. 395-96. New York, Macmillan.
Description of the bridges of Natural Bridges National Monument and of Rainbow Bridge.

Johnson, Zeke

- 1936 Scenic south Utah. Southwestern mons. mo. rept., (Mar.), Supp.:222-25.
Description of the routes to Natural Bridges National Monument, the features of the monument, and the facilities for tourists. Originally delivered as a radio broadcast by Mr. Johnson, custodian of the monument.

Lee, Willis T.

- 1926 [Natural Bridges National Monument.] In his: Stories in stone, pp. 65-71. New York, Van Nostrand.

Longwell, C. R., and others

- 1925 Rock formations in the Colorado Plateau of southeastern Utah and northern Arizona. U. S. Geol. Surv., Prof. pap. 132:1-23, illus., map. Washington, Govt. print. off.
Description of rock formations in the area which includes Natural Bridges National Monument. Co-authors: H. D. Miser, Kirk Bryan, R. C. Moore, and Sidney Paige.

Mills, Enos A.

- 1917 The Natural Bridges and Rainbow Bridge National Monument. In his: Your national parks, pp. 236-39, illus. New York, Houghton Mifflin.

Miser, H. D., co-author. See: Longwell, C. R., 1925.

Mitchell, Guy E.

- 1927 Nature's giant bridges. Am. forests and forest life, 33: 657-60 (Nov.), illus.
Description of the bridges of Natural Bridges and Rainbow Bridge national monuments.

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CENTRAL STATES

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BADLANDS NATIONAL MONUMENT

Anonymous

1875 [Fossil bones from the Bad Lands.] Pop. sci. mo., 6:512
(Feb.).

Rare specimens of fossil bones, many unknown to science, were among the large collection procured by Professor Marsh on his "scientific raid" in the Badlands near the Black Hills. Several species of Brontotheriidae were found.

1876 Prof. Cope's expedition. Forest and stream, 7:296 (Dec. 14).

About three tons of fossil bones, a large number of mammal skins and skeletons, and many fishes and reptiles were collected on this exploring expedition. The beds are described. Buffalo, antelope, bighorn sheep, deer and bear were common. Eighteen species of dinosaurs, and fresh water and land reptiles were obtained. Data on the zoology and geology of the Badlands region is given.

1877 The Bad Lands of White River. Scientific Am., n.s., 36:167 (Mar. 17), illus.

A description of the Badlands of Dakota.

1900 The Sioux reservations. Indian Rights Assn., pubs., 17th ann. rept. (1899), ser. 2, pp. 32-8.

Information regarding the general educational work of the Government in reservation areas that border on the Badlands National Monument and Wind Cave National Park.

1926 South Dakota badlands. Black Hills engineer, 14:65-75, illus.

A description of the picturesque portion of the Badlands that lies between the White and Cheyenne rivers, called the Big Badlands.

1927 The Black Hills, once hunting grounds of the red men.

Natl. geog., 52:305-29 (Sept.), illus.

Contains a description of the Badlands area, noting its paleontological interest.

1930 The Badlands National Monument. Black Hills engineer, 18:273-6 (Mar.), illus., map.

The text of the Act passed by the 70th Congress (1929) establishing the Badlands National Monument.

Albright, Horace M. See: Faris, John T., 1930.

CENTRAL STATES

Allen, J. A.

1875 . Metamorphism produced by the burning of lignite beds in Dakota and Montana. Pop. sci., 6:630 (Mar.).

Highly metamorphosed beds of clay and sand, associated with volcanic-like materials existing in the Badlands of the Upper Missouri, are described. They are caused by the burning of underlying beds of lignite.

1895 List of mammals collected in the Black Hills region of South Dakota and in western Kansas by Mr. Walter W. Granger, with field notes by the collector. Am. Mus. Nat. Hist., bul., 7: 259-74.

Data on 600 specimens, representing 42 species; some were collected in the Badlands National Monument area.

Ballou, Maturin M.

1892 [The Badlands.] In: The new Eldorado, pp. 10-11. New York, Houghton, Mifflin.

Batchelder, George A.

1928 A sketch of the history and resources of Dakota Territory. S. Dak. State Hist. Soc., coll., 14:181-251.

A brief survey of the early history, traditions, climate, soil, and productions of this territory. A section is devoted to the minerals of the Black Hills, part of which area comprises the Badlands National Monument.

Case, E. C.

1895 On the mud and sand dikes of the White River Miocene. Am. geologist, 15:248-54 (Ap.).

A description of the mud and sand dikes of the White River Badlands of South Dakota. The dikes of soft sandstone commonly traverse the clays perpendicularly to their stratification. Associated with the sandstone are veins of chalcedony, found also to exist separately. The dikes of mud and sandstone are believed to occupy pre-existent cracks that were filled by intrusions of water and suspended material from below. It has been proposed to reserve a portion of the spectacularly eroded and weather-worn Badlands region as a national monument.

Compton, L. V.

1935 Two avian fossils from the lower Pliocene of South Dakota. Am. jour. sci., 5th ser., 30:343-48 (Oct.), illus.

A description of two fossils found in the Badlands by members of the Univ. of Calif. Museum of Paleontology.

BADLANDS NATIONAL MONUMENT

Connolly, Joseph P.

1930 The sand-calcite crystals of Devils Hill. Black Hills engineer, 18:264-73 (May), illus., bibliog.

A description of sand-calcite crystals found in the Badlands of South Dakota.

Culbertson, Thaddeus A.

1851 A journal of an expedition to the Mauvaises Terres and the Upper Missouri in 1850. Smithsn. Instn., 5th ann. rept., 1851, pp. 84-145.

Darton, N. H.

1899 The Badlands of South Dakota. Natl. geog., 10:339-43 (Sept.), illus.

A geological description of the Badlands.

1909 The Big Badlands. Scribner's, 46:303-10 (Sept.).

A geological description.

1921 Badlands of South Dakota and Nebraska, 7 pp., illus. Berlin, Gebruder Borntraeger.

A geological description.

Domenech, Abbe' Em.

1860 [Badlands.] In his: Seven years' residence in the great deserts of North America, 1:301-2. London, Longman, Green, Longman and Roberts.

Describes the region of the present national monument.

Emmons, Earl H.

1921 The sneezeless land of Dacotah. Am forestry, 27:503-9 (Aug.), illus.

Includes a brief description of the Badlands.

Faris, John T., and Albright, Horace M.

1930 [The Black Hills and the Badlands.] In: Roaming the Rockies; through national parks and national forests of the Rocky Mountain wonderland, pp. 283-305, illus. New York, Farrar and Rinehart.

Ford, W. E. See: Pentfield, S. L., 1900.

Germann, John and Louise

1936 Color records of the Badlands. Nat. Hist., 37:353-61 (Apr.), illus.

Seeking authentic color records of the Badlands, the Big-horn, Wind River, Uinta Basin, and the Great Plains area to use in

CENTRAL STATES

Germann, John and Louise, Continued

the preparation of pictorial geological charts. The authors and staff artists of the American Museum traveled in these regions and made 46 sketches. The author describes this expedition.

Hayden, F. V.

1858 Notes on the geology of the Mauvaises Terres of the White River, Nebraska. Acad. Nat. Sci. of Phil., proc., 9:151-8.

1858a Tertiary basin of White and Niobrara rivers. Am. jour. sci., 2d ser. 26:404-8 (Nov.).
Geological description of the Badlands.

1866 Exploration of the "Badlands" or "Mauvaises Terres" of the Upper Missouri region. Am. jour. sci., 2d ser., 42:425 (Nov.).
A description of a trip through the Badlands. The article gives much scientific data on zoology, botany, and astronomy.

Honess, Arthur P.

1923 Some interesting chalcedony pseudomorphs from Big Badlands. South Dakota. Am. jour. sci., 5th ser., 5:173-4 (Feb.), illus.

An account of the composition, geologic location, color, and frequency of distribution of chalcedony pseudomorphs in the region studied.

Jepsen, Glenn L.

1926 Fossil collecting in the Badlands. Black Hills engineer, 14:77-86 (Feb.), illus.

Lang, Lincoln

1926 Ranching with Roosevelt, by a companion rancher, 367 pp., illus. Chicago, Lippincott.

An interesting description of the misnamed Badlands of South Dakota is given by a nature lover with an appreciation of this "wild romantic rock-garden of the gods." Mr. Lang recalls his buffalo-hunting experiences with Theodore Roosevelt.

Marsh, O. C.

1875 Ancient lake basins of the Rocky Mountain region. Am. jour. sci., 3d ser., 9:49-52 (Jan.).

Notes on the oldest of the great Tertiary lake basins of Eocene age. One of the lakes described is found in the Badlands.

Matthew, W. D.

1905 Notice of two new genera of mammals from the Oligocene of South Dakota. Am. Mus. Natl. Hist., bul., 21:21-26, illus. Among the collections made by Mr. Albert Thomison for the

BADLANDS NATIONAL MONUMENT

American Museum are skulls and fragmentary skeletons of a rodent and a small artiodactyl distinct from any known genera. Both specimens were found in the lower Oregon beds of the White River formation at Quinn Draw on the Cheyenne River, in the Badlands National Monument region.

O'Harra, Cleophas C.

1920 The White River Badlands. S. Dak. School of Mines, Dept. of Geol., bul., 13, 181 pp., map, bibliog., illus.
A geological description.

1930 The Big Badlands, the wonderland of the great plains. Black Hills engineer, 18:191-205 (May), illus.

Osborn, Henry Fairfield

1893 *Aceratherium tridactylum* from the lower Miocene of Dakota. Am. Mus. Nat. Hist., bul., vol. 5, pp. 85-6.
Description of the largest type tridactylum, the hornless rhinoceros, found in the lower Miocene of the White River region.

Pentfield, S. L., and Ford, W. E.

1900 Siliceous calcites from the Badlands, Washington County, South Dakota. Am. Jour. Sci., 4th ser., 9:352-4 (May), illus.
Analysis, description, and comparison of these minerals, found near the Badlands National Monument area.

Perisho, Ellwood C., and Visher, S. S.

1912 The geography, geology, and biology of south-central South Dakota. State Geol. and Biol. Surv., bul. 5, 152 pp., maps, index, illus.
A general report, including comments on the Badlands; soils, topography, flora, and fauna.

Roosevelt, Theodore

1888 The Wapiti, or round-horned elk. In his: Ranch life and the hunting trail, pp. 147-51, illus. New York, Century.
A description of hunting elk in the Badlands.

Sheldon, A. E.

1912 Ancient Indian fireplaces in South Dakota Badlands. S. Dak. hist. coll., 6:217-23, illus.
Report of a discovery of prehistoric fireplaces in the Badlands, believed to be not earlier than late Pleistocene.

Skiff, Frederick J. V.

1898 [Report of the director.] Field Columbian Mus., ann. rept., 1:263-343, illus.

CENTRAL STATES

Skiff, Frederick J. V., Continued

Seven weeks were spent in the region of the present Badlands National Monument. The valuable specimens secured are described.

Tallent, Annie D.

1923 Crossing the Bad Lands. In her: The first white woman in the Black Hills, pp. 56-69. Mitchell, S. D., Educator Supply.

Todd, James E.

1898 The exploration of the White River Badlands in 1896. S. Dak. Geol. Surv., bul. 2, pp. 117-135, illus. Geology and fossil remains are discussed.

Toepelman, W. C. See: Ward, Freeman, 1922.

Toepelman, W. C.

1922 The Badlands as a national park. S. Dak. Geol. and Nat. Hist. Surv., bul., pp. 76-80, map.

Some reasons why the Badlands should be proclaimed a national park: the forms and features of the area are types of all Badlands topography. No other section exhibits so clearly the variety and beauty of erosional features associated with the term. Included in the formation are fossil ancestors of modern mammals such as the horse, camel, cat, and others. The territory is known to geologists, paleontologists, and geographers the world over. The region is accessible, as the Custer trail, a much used route to Yellowstone National Park, runs near its eastern edge. The first scientific expedition to visit the Badlands was in 1849.

Tolson, Hillory A., comp.

1933 [Legislation relating to Badlands National Monument.] In: Laws relating to the National Park Service, the national parks and monuments, pp. 302-6, 382. U. S. Dept. Int., Natl. Park Serv. Washington, Govt. print. off. Includes both federal and state legislation.

Visher, S. S. See: Perisho, Ellwood C., 1912.

Voth, Hazel H., and others

1938 Badlands National Monument Project. In: Guide to national parks and monuments west of the Mississippi River, p. 75. U. S. Dept. Int., Natl. Park Serv. Berkeley, Calif. Specifies location, area, and date of establishment; lists and describes briefly the principal features; gives historical data.

Wanless, Harold R.

1922 Lithology of the White River sediments. Am. Phil. Soc.,

BADLANDS NATIONAL MONUMENT

Proc., 61:184-203, illus.

Ward, Freeman, and Toepelman, W. C.

1922 The geology of a portion of the Badlands. S. Dak. Geol. and Nat. Hist. Surv., bul. 2, 80 pp., illus., maps.

The subject is covered under the headings: topography, formations and their origin, structure and physiography, archeology, and paleontology.

Wortman, J. L.

1893 On the divisions of the White River or lower Miocene of Dakota. Am. Mus. Nat. Hist., bul., 5:95-105.

A description of the findings of a paleontological expedition in the Badlands.

Wortman, J. L., and Earle, Charles

1893 Ancestors of the tapir from the lower Miocene of Dakota. Am. Mus. Nat. Hist., bul., 5:159-180, illus.

A descriptive paper on a genus of *Perissodactyla* protapirus, and the structure of the genus *Colodon*. In 1892 an expedition from the American Museum of Natural History discovered the occurrence of protapirus in the White River Miocene, and placed the origin of the true tapir in this country below the *Oreodon* beds of the White River Miocene. The White River flows through the proposed Badlands National Monument.

BIG BEND NATIONAL PARK PROJECT

Anonymous

1927 [Big Bend rock formations.] Sci., n.s., vol. 65, no. 1694 (June 17), p. 14 in supp.

Peculiar rock formations of this Texas region were re-examined and found not to be petrified trees.

1937 Funds may be appropriated soon for Big Bend project. U. S. Dept. Int., 7:7 (Jan.).

The proposed project will include some 800,000 acres in Brewster County, Texas. At the January session of the Texas legislature an appropriation of \$1,400,000 will be sought. In Mexico, 400,000 acres are being acquired by that government in the states of Chihuahua and Coahuila. These areas will be joined by the Rio Grande to form the Big Bend International Peace Road. The land in Texas must be ceded to the Federal Government to meet congressional requirements.

Cahalane, Victor H.

1937 The proposed Big Bend National Park. Natl. Parks Assn., 13: 16-9 (Dec.), illus. Washington.

Fletcher, Henry T.

1931 Some types of archeological sites in trans-Pecos Texas. Tex. Archeol. and Paleontol. Soc., bul. 3:7-17 (Sept.), illus.

A report of the mapping of some 200 archeological sites within a 100-mile radius of Alpine in the region of the Big Bend National Park project. Among things found were hearths, mounds and monuments, burial sites, sotol pits, rock walls and irrigating ditches, metates and manos, mortar holes, and an ancient battlefield.

Gilmore, Charles W.

1922 The horned dinosaurs. Smithsn. Instn., ann. rept., 1920, pub. 2622, pp. 381-7, illus.

Fossil remains of the horned dinosaur are confined to a belt running from Alberta, Canada, to the proposed Big Bend National Park. The incomplete geological continuity of their course is due to the intervention of thick marine deposits in which few remains of land animals are found. Evidence exists to show that nature attempted to adapt their skeletal structure to their changing environment. Failure to do this resulted in their sudden extermination. Illustrations consist of eight plates, accompanied by explanatory notes.

Howard, C. A.

1931 The Quaternary mammals of Texas. Tex. Archeol. and Paleontol. Soc., bul., 3:31-41 (Sept.), illus., map, bibliog.

CENTRAL STATES

A study of the Quaternary deposits of Texas, some of which are near the Big Bend National Park project. A map shows the location of these deposits, and also of the Pleistocene mammal fossils, several of which are listed and described.

Martin, George Castor, and Woolford, Samuel

1932 Painted pebbles of the Texas Big Bend. Texas Archeol. and Paleontol. Soc., bul., 4:20-4 (Sept.), illus.

Painted pebbles from a cave at Shumla (Shulma?) located in the area proposed as a national park, are described.

Setzler, Frank M.

1933 Prehistoric cave dwellers of Texas. Smithsn. Instn., explorations and fieldwork, 1932, pub. 3213, pp. 53-6, illus.

An article on archeological research in the southwestern portion of Texas in the Chisos mountains area, 150 miles south of Alpine, in the Big Bend National Park Project. The artifacts found were grooved club fragments, hand-end of an atlatl, two fragments of painted twine, woven bags, and a small sample of cloth woven with apocynum fiber. Evidence gathered here for the first time may serve to indicate the relative age and development of our nonpottery culture in the Big Bend area.

Smith, Victor J.

1927 Some notes on dry rock shelters in western Texas. Am. anthropologist, 29:286-290 (Ap.-June), illus.

The area investigated lies north of and within 30 miles of the Big Bend National Park project in western Texas. Similar remains and relics were reported, however, farther south in the region of the national park project. The dry rock shelters comprising long open retreats and caves, and the region in which they are found, are described. Numerous well-preserved implements, prepared desert fiber, fiber products, garnered sources of food supply, shells, and skeletal remains, were unearthed from the ground floors.

1931 Archeological notes of the Big Bend region. Tex. Archeol. and Paleontol. Soc., bul., vol. 3, pp. 60-9 (Sept.).

Description of numerous artifacts found in the rock shelters or caves in this area.

1932 The relation of the southwestern basket maker to the dry shelter culture of the Big Bend. Tex. Archeol. and Paleontol. Soc., bul., 4:55-62 (Sept.), illus.

Articles uncovered in the dry rock shelter finds of the Big Bend region of western Texas, were found to be almost identical in part with artifacts reported discovered by Earl A. Morris at New Mexico and Arizona sites. Publications of recent date aid in the

BIG BEND NATIONAL PARK PROJECT

development of a list of distinguishing characteristics of true basket Maker culture as contrasted with neighboring types. A culture closely resembling that of the Basket Maker was previously reported by the writer for the Big Bend region.

Udden, J. A., and others

1916 Review of the geology of Texas. Univ. Texas, bul. 44, 152 pp., maps, index.

Voth, Hazel H., and others

1938 Big Bend National Park Project. In: Guide to national parks and monuments west of the Mississippi River, p. 79. U. S. Dept. Int., Natl. Park Serv. Berkeley, Calif. Specifies location, area, and date of establishment; lists and describes briefly the principal features; gives historical data.

Woolford, Samuel. See: Castor, George C., 1932.

HOT SPRINGS NATIONAL PARK

The bibliography for this section was not completed. If, at some future date, it is found possible to compile it, the missing pages will be forwarded for inclusion in this volume.

JEWEL CAVE NATIONAL MONUMENT

Anonymous

1908 Jewel Cave National Monument. Am. forestry, 14:132 (Mar.).
Information on the establishment of the monument, and topographical description.

1910 Jewel Cave National Monument. Am. Scenic and Hist. Preservn. Soc., 15th ann. rept., pp. 128-9.
Information on and description of this monument, established in 1908.

1917 Jewel Cave National Monument. In: General information regarding national monuments, pp. 57-8, map. Natl. Park Serv., Washington, Govt. print. off.
Discovery, geological formation and map of location.

1925 Jewel Cave National Monument. Am. Scenic and Hist. Preservn. Soc., ann. rept., p. 164.
This is an area of 1280 acres in Custer County, South Dakota. It includes some interesting limestone caverns containing jasper, manganese, and other minerals. The caves were discovered by two prospectors who were attracted by the noise of wind coming from a small hole in the limestone cliffs on the east side of Hell Canyon.

Cook, H. J.

1922 Basic Tertiary conglomerate of Black Hills. Pan-Am. geologist, 42:1-4 (June).

South and east of the Black Hills uplift, near Jewell Cave National Monument, appears a wide-flung mantle of quartz gravels, containing pebbles of rose quartz. The evidence seems conclusive that these gravel beds form the basal member of the Chadron formation and are Oligocene in age. It represents the initial deposit of the regional Tertiary succession.

Cross, Whitman. See: Hillebrand, W. C., 1896.

Ewers, John C.

1938 Teton Dakota ethnology and history. U. S. Dept. Int., Natl. Park Serv., 29 pp.

The Teton Dakota Indian tribe once ranged over the region now included in Jewel Cave National Monument.

Headden, W. P.

1891 A new phosphate from the Black Hills of South Dakota. Am. jour. sci., 3d ser., 41:415-7 (May).

A description of a mineral found in the Riverton Lode, Pen-

CENTRAL STATES

Pennington County, South Dakota, near Jewel Cave National Monument.

1891a Columbite and tantalite from the Black Hills of South Dakota.
Am. jour. sci., 3d ser., 41:89-102 (Feb.).
A description of these minerals as found in the Etta Mine,
Pennington County, South Dakota, near Jewel Cave National Monument.

Hillebrand, W. C., and Cross, Whitman

1896 South Dakota. U. S. Geol. Surv., bul. 148, p. 114.
Geological notes on the Black Hills and Harney Peak in South
Dakota, in the region of the Jewel Cave, Fossil Cycad, and the pro-
posed Badlands National Monument and Wind Cave National Park.

Quinn, Vernon

1923 [Jewel Cave National Monument.] In: Beautiful America, p.
288. New York, Stokes.
The author ascribes the beauty of this wonder-cavern to the
varicolored chert abundantly sprinkled about the cave.

Rothrock, E. P.

1928 The geological and natural history survey. S. Dak. Geol.
and Nat. Hist. Surv., bien. rept., 7 pp.
Includes a report on structures in the area of Jewel Cave
National Monument.

Voth, Hazel H., and others

1938 Jewel Cave National Monument. In: Guide to national parks
and monuments west of the Mississippi River, p. 77. U. S.
Dept. Int., Natl. Park Serv. Berkeley, Calif.
Specifies location, area, and date of establishment; lists
and describes briefly the principal features; gives historical data.

Yard, Robert Sterling

1919 Jewel Cave National Monument. In: The book of the national
parks, p. 415. New York, Scribner's.
Brief reference is made to this limestone cavern of peculiar
beauty, through whose entrance the wind plays pranks.

PLATT NATIONAL PARK

The bibliography for this section was not completed. If, at some future date, it is found possible to compile it, the missing pages will be forwarded for inclusion in this volume.

SCOTTS BLUFF NATIONAL MONUMENT

Anonymous

1925 Scotts Bluff National Monument. Am. Scenic and Hist. Preservation Soc., ann. rept., p. 153.

This monument, situated on the south side of the North Platte River in the extreme western part of Nebraska, includes Scotts Bluff, the highest point in the state (4,662 feet). The summit commands a view of the surrounding country for miles. It was used as a landmark and rendezvous by immigrants and frontiersmen traveling the Old Oregon Trail.

ca1930 Scotts Bluff National Monument. In: Glimpses of our national monuments, pp. 55-8, illus. U. S. Dept. Int., Natl. Park Serv. Washington, Govt. print. off.

Albright, Horace M., and Taylor, Frank J.

1928 Scotts Bluff. In their: Oh, ranger!, pp. 163-4. Palo Alto, Calif., Stanford Univ. press.

Bidwell, John

1891 First emigrant train to California. Century mag., 41: 106-30 (Nov.).

A descriptive account of the first emigrant train to California in 1841, including a description of Scotts Bluff.

1937 [Scotts Bluff.] In his: A journey to California, p. 8. San Francisco, J. H. Nash.

A description and impression of Scotts Bluff in 1841.

Brand, Donald D.

1934 The history of Scotts Bluff, Nebraska. Natl. Park Serv., Division of Education, 83 pp., bibliog. Berkeley.

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WIND CAVE NATIONAL PARK

The bibliography for this section was not completed. If, at some future date, it is found possible to compile it, the missing pages will be forwarded for inclusion in this volume.

VI. SOUTHWESTERN NATIONAL MONUMENTS

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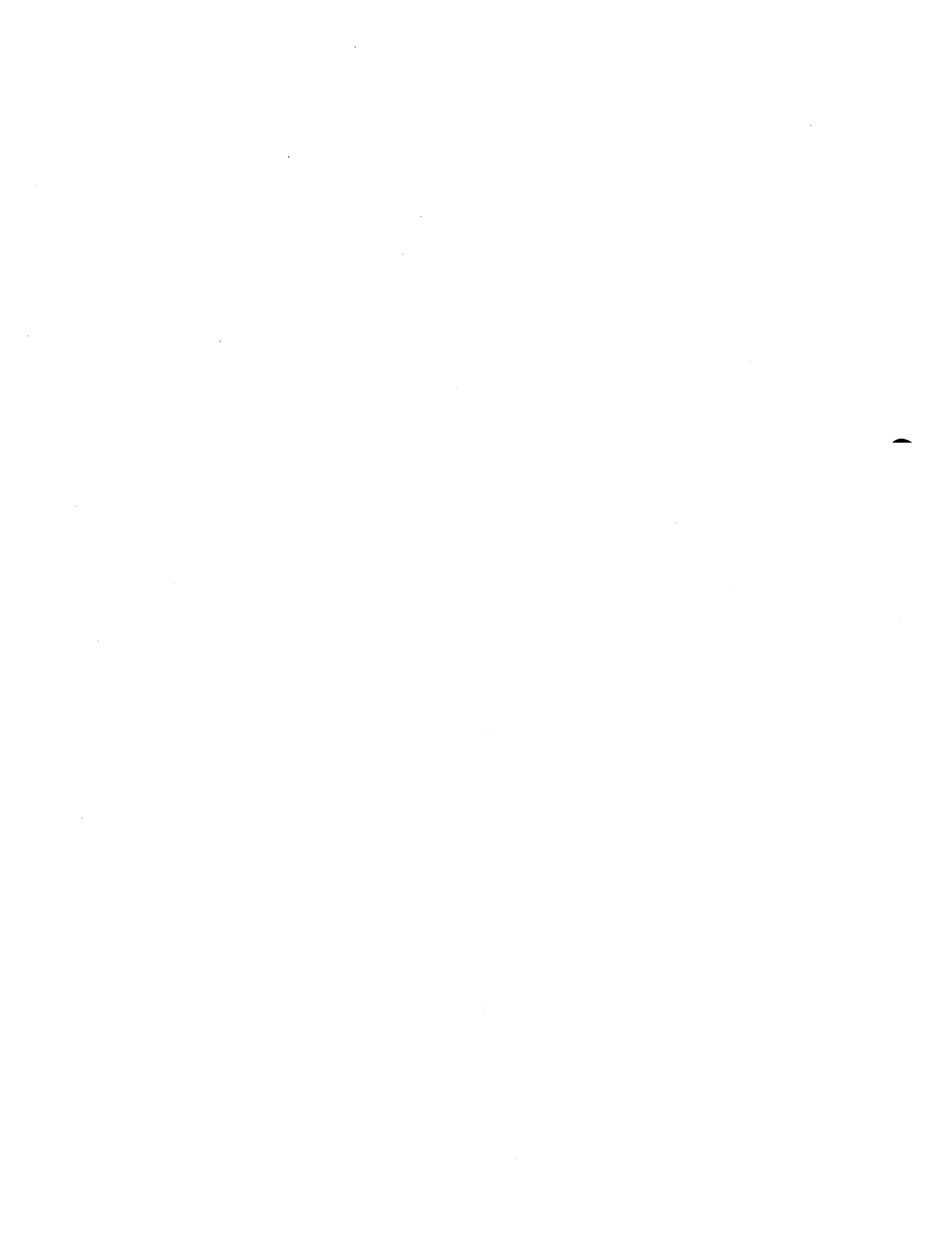
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FOREWORD

The following references to the literature of the Southwestern National Monuments pertain to monuments in existence at the beginning of 1939. They represent a selection gathered by workers on a research project sponsored by the National Park Service in collaboration with the Work Projects Administration. These pages are part of a larger volume which includes other national parks and monuments in the West.

The references, in general, include material published through 1936, although there are many items of more recent date. Poetry and maps have been excluded, and only a few fiction items, of unusual interest, have been included. Reprints, abstracts, and book reviews have been cited only when the originals were not available. The selection from the Southwestern Monuments Monthly Reports has been limited to supplementary material of permanent or special interest. It has also been necessary to limit the selection from the vast literature on the Indians of the historic period in the Southwest to material related to areas within strictly defined national monument boundaries. A few references, which were not available for examination and verification of date, but which seemed valuable, have been included. These have been marked by asterisks. The scope and flexibility of the bibliography have been increased by the free use of analytic references, or the relevant portions of books cited as such. Because the material under each of the individual monument headings is almost homogeneous, no subject classification has been attempted.

Among those to whom the National Park Service is indebted for cooperation in preparing this bibliography are the Berkeley Public Library and the University of California libraries at Berkeley.



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Saunders, Charles F.

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1900 A day in the cliff dwellings. Land of sunshine, 13:23-28 (June), illus.

Narrative of a trip to some cliff dwellings in the region of the present Bandelier National Monument.

*Walter, Paul A. F.

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United States. Smithsonian Institution

1924 Archeological field work in New Mexico. Smithsn. misc. colls., 76:82-88, illus.

Includes a description of a fragment of ancient Zuni ware found in Canyon del Muerto in 1923.

1926 Repair of Mummy Cave Tower in the Canyon del Muerto, Arizona. Smithsn. misc. colls., 77:108-12, illus.

Description, and an account of the restoration of this ruin in Canyon de Chelly.

Vandiver, Vincent W.

1937 Geologic report, Canyon de Chelly. Southwestern mons. mo. rept., (July), Supp.:55-68, bibliog.

Discusses the geology, history, land forms, climate, water supply, and roads of the Canyon de Chelly National Monument area.

Vestel, Stanley

1931 [Kit Carson's campaign against the Navahos and their surrender in Canyon de Chelly, 1864.] In his: Kit Carson, the happy warrior of the old west, pp. 278-80. Boston, Houghton Mifflin.

Voth, Hazel H., and others

1938 Canyon de Chelly National Monument. In: Guide to national parks and monuments west of the Mississippi River, p. 6. Berkeley, Calif., U. S. Dept. Int., Natl. Park Serv.

Specifies location, area, and date of establishment. Briefly describes the principal features.

[Wallace, Susan E.]

1880 Among the pueblos. Atlantic mo., 46:215-25 (Aug.).

Notes on early explorations in New Mexico and Arizona. Includes reference to Canyon de Chelly.

CANYON DE CHELLY NATIONAL MONUMENT

Walker, Agnes J., co-author. See: Eaton, Theodore H., jr., 1937b.

Weltfish, Gene

1932 [Prehistoric basketry of Canyon de Chelly.] Smithsn.
misc. colls., 87:(no.7)8-11, illus.

Weyer, Edward M., jr.

1929 Exploring cliff dwellings with the Lindbergh. World's
work, 58:[52]-57 (Dec.), illus.

Account of Colonel and Mrs. Charles Lindbergh's exploration of the ruins of Canyon de Chelly, particularly those of Canyon del Muerto.

Yard, Robert S.

1931 Canyon de Chelly National Monument. In his: The national parks portfolio, p. 270. 6th ed., U. S. Dept. Int., Natl. Park Serv. Washington, Govt. print. off.
Brief descriptive note.

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5.

CAPULIN MOUNTAIN NATIONAL MONUMENT

Anonymous

- 1917 Capulin Mountain National Monument. Am. Scenic and Hist. Preservn. Soc., 22d Ann. rept., 1917:368.
Brief notes on the establishment of the monument and the volcanic cone of the mountain.
- 1918 National monuments in New Mexico. 6. Mount Capulin. El Palacio, 5:275 (Nov.16).
Brief description of the volcanic cone and the surrounding country.
- 1925 Capulin Mountain National Monument. Am. Scenic and Hist. Preservn. Soc., 30th Ann. rept., 1925:154-55.
Notes on the geological history of Capulin Mountain and the adjacent country.

Albright, Horace M., and Taylor, Frank J.

- 1928 Capulin Mountain National Monument. In their: Oh, Ranger! p. 162. Stanford Univ., Calif., Stanford Univ. press.
Brief descriptive notes.

Case, E. C., joint author. See: Williston, S. W., 1912.

Cook, Harold J.

- 1928 Glacial age man in New Mexico. Sci. Am., 139:38-40 (July), illus.
Discusses the discovery of an arrowpoint imbedded in bison remains near Capulin Mountain, which indicates the presence of prehistoric men in the region in glacial or Pleistocene times.

- 1931 More evidence of the "Folsom culture" race. Sci. Am., 144: 102-03 (Feb.), illus.
Discusses the discovery of bison remains of unusual size in the vicinity of Capulin Mountain.

Faris, John T.

- 1920 [Capulin Mountain.] In his: Seeing the far west, p. 140. Phila., J. B. Lippincott co.
Description of "the most perfect extinct volcano" in America.

Keyes, Charles R.

- 1905 Volcanic craters in the southwest. Geol. Soc. Am., Bul., 17:721-23, illus.
Includes a good description of Capulin Mountain.

CAPULIN MOUNTAIN NATIONAL MONUMENT

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- 1919 The hanging gardens of Mesa de Maya. Geog. rev., 8:[145]-52 (Sept.), illus., map.
Includes a brief note on Capulin Mountain as the most recently extinct volcano in the United States except Mount Lassen.
- Knowlton, F. H.
- 1917 Fossil floras of the Vermejo and Raton formations of Colorado and New Mexico. U. S. Geol. Surv., Prof. pap. 101: 223-349, illus. Washington, Govt. print. off.
Some specimens collected in the vicinity of Capulin Mountain National Monument are discussed.
- Lee, Willis T.
- 1912 Extinct volcanoes of northeast New Mexico. Am. forestry, 18:357-65 (June), illus.
Geological discussion of three groups of extinct volcanoes. Capulin Mountain is discussed as representative of one group.
- Mitchell, Guy E.
- 1917 New national parks. Am. rev. of revs., 55:635-40 (June), illus.
Includes a detailed description of the newly created Capulin Mountain National Monument.
- Quinn, Vernon
- 1923 [Capulin Mountain National Monument.] In his: Beautiful America, pp. 279-80. New York, F. A. Stokes co.
- [Renaud, Etienne B.]
- 1929 Archaeological research in northeastern New Mexico and western Oklahoma. El Palacio, 27:276-79 (Dec.7-14).
Account of paleontological field work in the vicinity of Capulin Mountain in 1926, 1927, and 1928.
- Renaud, Etienne B.
- 1931 Prehistoric cultures of the Cimarron Valley, northeastern New Mexico and western Oklahoma. Colo. Sci. Soc., Proc., 12:[113]-50 (1929/31), illus., map, bibliog.
Includes a discussion of fumaroles in and around Capulin Mountain and notes on the discovery of buffalo remains of unusual size.
- St. John, Orestes
- 1876 Notes on the geology of northeastern New Mexico. U. S. Geol. and Geog. Surv. of the terrs., Bul., 4, pt. II:[279]-308, illus. Washington, Govt. print. off.
Includes a topographical and geological description of Capulin Mountain and the surrounding country.

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Taylor, Frank J., joint author. See: Albright, Horace M., 1928.

United States. National Park Service

1917 Capulin Mountain National Monument. In: General information regarding the national monuments set aside under the act of Congress approved June 8, 1908, pp. 10-11, map. U. S. Dept. Int., Natl. Park Serv. Washington, Govt. print. off.

1919- [Reports of the custodian of Capulin Mountain National
1921 Monument.] U. S. Dept. Int., Ann. rept., 1919, 1:1174;
1920, 1:319; 1921, 1:261. Washington, Govt. print. off.

[1930] Capulin Mountain National Monument. In: Glimpses of our national monuments, pp. 7-8, illus. U. S. Dept. Int., Natl. Park Serv. Washington, Govt. print. off.

1932-- Southwestern monuments monthly report. Coolidge, Ariz., Southwestern Natl. Monuments.
See this publication of the headquarters staff of the Southwestern National Monuments (called The Epitaph previous to 1932) for information on current conditions at Capulin Mountain National Monument.

Voth, Hazel H., and others

1938 Capulin Mountain National Monument. In: Guide to national parks and monuments west of the Mississippi River, p. 61. Berkeley, Calif., U. S. Dept. Int., Natl. Park Serv.
Specifies location, area, and date of establishment. Brief description of the volcanic cone.

Williston, S. W., and Case, E. C.

1912 The Permo-Carboniferous of northern New Mexico. Jour. of geol., 20:1-12 (Jan.-Feb.), maps.
Some of the formations examined were near Capulin Mountain.

Yard, Robert S.

1919 [Capulin Mountain.] In his: The book of the national parks, pp. 402-03. New York, Charles Scribner's Sons.

1920 Natural and historic national monuments. Art and archeol., 10:55-63 (July-Aug.), illus.
Includes a brief description of Capulin Mountain National Monument.

1931 Capulin Mountain National Monument. In his: The national parks portfolio, p. 263. 6th ed., U. S. Dept. Int., Natl. Park Serv. Washington, Govt. print. off.
Brief descriptive note.

CASA GRANDE NATIONAL MONUMENT

Anonymous

- 1869 The Aztec ruins of New Mexico and Arizona. All the year round [London], n.s., 1:540-44 (May 8). Includes a description of Casa Grande.
- 1889 Casa Grande to be preserved. Am. antiquarian, 11:358 (Nov.).
Brief description of the ruin and notes on government plans to preserve it as a national monument.
- 1892 Casa Grande. Am. antiquarian, 14:327 (Nov.).
Description of the exhibit at the Chicago World Fair which represents the Casa Grande ruin.
- 1893 [Casa Grande; its origin, history, and former inhabitants.] In: Among the Pimas, or, The mission to the Pima and Maricopa Indians, pp. 116-18. Albany, N. Y., Ladies' Mission School Assn.
- 1908 Some prehistoric peoples of the southwest. Overland mo., 2d ser., 52:468-71 (Nov.), illus.
Notes on the Indian arts and industries and the flora and fauna of the Casa Grande region.
- 1909 A real American ruin. Outlook, 91:98-99 (Jan.).
Notes on archeological investigations made at Casa Grande by the Smithsonian Institution.
- 1910 Casa Grande ruin. Am. Scenic and Hist. Preservn. Soc., 15th Ann. rept., 1910:122.
brief historical and descriptive notes.
- 1925 Casa Grande National Monument. Am. Scenic and Hist. Preservn. Soc., 30th Ann. rept., 1925:132.
Brief descriptive note.
- 1933 [Analysis of materials used in the walls of Casa Grande.] Southwestern mons. mo. rept., (June), Supp.:A-B.
- 1933a [A Casa Grande maze.] Southwestern mons. mo. rept., (Feb.), Supp.:A-B.
Description of a maze on the wall of the center room of the ruin. The pattern is identical to those found on certain Cretan coins.

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1933b The Casa Grande sun-holes. Southwestern mons. mo. rept.,
(Mar.), Supp.:A-E, illus.
Sun-holes were the means by which the ancient Indians reckoned their civil and solar year.

1937 What to see around Tucson. Tucson, 9:2-3 (Jan.), illus.
Includes a description of Casa Grande National Monument.

Albright, Horace M., and Taylor, Frank J.

1928 Casa Grande National Monument. In their: Oh, Ranger!
pp. 140, 141, 155. Stanford Univ., Calif., Stanford Univ.
press.
Descriptive and historical notes.

Armer, Laura A.

1935 [Turquoises and a pictograph at Casa Grande.] In her:
Southwest, pp. 9-11, 130-35. New York, Longmans, Green.

Arnold, Oren

1931 A vanished empire of the southwest. Travel, 58:25-29, 45
(Nov.), illus.
Includes notes on archeological discoveries made in ancient
burials at Casa Grande National Monument.

Austin, Mary

[1924] [Historical notes on the Casa Grande ruins.] In her: The
land of journey's ending, pp. 92, 95, 99. New York, Cen-
tury.

Bancroft, Hubert H.

1875 [Casa Grande.] In his: Native races of the Pacific states
of North America, 4:621-31, illus. New York, Appleton.
Historical and descriptive material.

1889 [Casa Grande.] In his: History of Arizona and New Mexico,
1530-1888 (Bancroft's Works, 17), pp. 42, 355, 362, 365,
625. San Francisco, History co.
Brief historical references to early visitors to the ruin.

[Bandelier, Adolph F. A.]

1886 Alvar Nunez Cabeza de Vaca. The first overland traveler of
European descent, and his journey from Florida to the Pacific
coast, 1523-1536. Mag. west. hist., 4:327-36 (July).
Includes notes on the Casa Grande ruin.

Bandelier, Adolph F. A.

1892 [Casa Grande.] In: Final report of investigations among
the Indians of the southwestern United States, carried on

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mainly in the years from 1880-1885. Archeol. Inst. Am., Anthro. paps., Am. ser., 4, pt. II:453-64, illus.

Detailed description of the several ruins and the relics found in them. Notes on early visitors and Pima Indian traditions about the ruins.

Barber, Edwin A.

1877 Stone implements and ornaments from the ruins of Colorado, Utah, and Arizona. Am. naturalist, 11:264-75 (May), illus. Includes notes on implements and ornaments found at Casa Grande.

Bartlett, John R.

1856 Indians of the Gila, and the Casas Grandes. In his: Personal narrative of explorations and incidents in Texas, New Mexico, California, Sonora, and Chihuahua, pp. 261-84, illus. New York, Appleton.

Includes a description of the Casa Grande ruins and quotations from the writings of Father Mangi and Father Font, who visited Casa Grande in 1694 and 1775 respectively.

Baxter, Sylvester

1889 Archaeological camping in Arizona. Am. archit. and bldg. news, 26:101-02, 120-22 (Aug.31).

An account of the Hemenway archeological expedition to the Casa Grande area. Description of the great irrigation canals and the ruins.

Bolton, Herbert E., ed. and tr.

1919 Historical memoir of Pimeria Alta; a contemporary account of the beginnings of California, Sonora, and Arizona, by Father Eusebio Francisco Kino, S. J., pioneer missionary, explorer, cartographer, and ranchman, 1683-1711. Cleveland, A. H. Clark co. 2 vols., illus., maps, bibliog.

These volumes contain many references to Father Kino's visits to Casa Grande, Tumacacori Mission, and Gran Quivira.

1921 [Father Kino's description of Casa Grande.] In his: The Spanish borderlands, pp. 195-96. New Haven, Yale Univ. press.

1930 [Casa Grande de Moctezuma.] In his: Anza's California expeditions, 1:252, 259; 2:127-28, 241; 3:198-200, 214-17; 4:34-41. Berkeley, Calif., Univ. Calif. press.

Translation of Father Font's description of Casa Grande, 1775, and Anza's description and detailed measurements of the ruin, 1774.

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Bolton, Herbert E.

- 1931 [Early visitors to Casa Grande.] In his: Outpost of empire, pp. [166]-71. New York, Alfred A. Knopf.
Father Font's account of his visit to Casa Grande with Juan Bautista de Anza in 1775.

Breazeale, J. F.

- 1923 [Casa Grande.] In his: The Pima and his basket, pp. 25-26. Tucson, Ariz., Acme Print. co.
Description.

Browne, John R.

- 1867 [Casa Grande.] In his: Adventures in the Apache country, pp. [114]-20, illus. New York, Harper and Bros.
Notes on the visit of Father Pedro Font to Casa Grande in 1775, and Indian traditions about the age of the building.

Bryan, Kirk

- 1922 Erosion and sedimentation in the Papago country, Arizona. U. S. Geol Surv., Bul. 730:19-90, illus., map. Washington, Govt. print. off.
Casa Grande is within the area discussed.

- 1925 [Roads of the Casa Grande district.] U. S. Geol. Surv., Water-supp. pap. 499:297-307, 389-93. Washington, Govt. print. off.

Buel, James W.

- 1894 [Casa Grande.] In his: America's wonderlands, pp. 146-48. Vancouver, B. C., J. M. MacGregor.
Historical and descriptive notes.

Carr, Harry

- 1932 [Casa Grande.] In his: The west is still wild, p. 49, illus. Boston, Houghton Mifflin.
Brief historical and descriptive notes.

Caywood, Louis R.

- 1935 Museum studies at Casa Grande. Southwestern mons. mo. rept., (Mar.), Supp.:146-51, illus.
Outline of present museum facilities at Casa Grande National Monument and a detailed description of a plan for an addition.

Cleland, Robert G.

- 1929 Conquerors of the desert. In his: Pathfinders, pp. 155-87, illus., map, bibliog. San Francisco, Powell Pub. co.
Includes an account of Father Pedro Font's visit to Casa Grande in 1775.

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- Conklin, E.
1878 [Casa Grande and its aqueduct.] In his: Picturesque Arizona, pp. [281]-91, illus. New York, Mining Record Print. co.
- *Cosgrove, C. B., and Felts, W. E.
1927 How we found the Casa Grande graveyards. Master key, 1: 15-19.
- Coues, Elliott, ed. and tr.
1900 From Tubac to Casas Grandes on Rio Gila, October 21-31, 1775. In: On the trail of a Spanish pioneer: the diary and itinerary of Francisco Garce's (missionary priest) in his travels through Sonora, Arizona, and California, 1775-1776, 1:63-101, illus. New York, Harper.
An account of Garce's' trip from Tubac to Casa Grande and a description of Casa Grande.
- Cozzens, Samuel W.
1874 [Casa Grande and the neighboring ruins.] In his: The marvelous country, or, Three years in Arizona and New Mexico, the Apaches' home, pp. 185-98, illus. New York, Shepard.
- Crane, Alice R.
1900 The prehistoric ruins of Casa Grande. Overland mo., 2d ser., 36:395-97 (Oct.), illus.
Historical and descriptive notes, with an excerpt from the writings of Father Eusebio Francisco Kino, who discovered Casa Grande in 1694.
- Cummings, Byron
1920 The national monuments of Arizona. Art and archeol., 10: 27-36 (July-Aug.), illus.
Includes historical and descriptive notes on Casa Grande.
- Daniels, Mark
1916 Mesa Verde and Casa Grande national parks. Am. forestry, 22:139-45 (Mar.), illus.
General description of the features of these National Park Service areas.
- Darton, Nelson H.
1933 [Casa Grande National Monument.] U. S. Geol. Surv., Bul. 845 (Guidebook of the western United States: pt. F. The Southern Pacific lines, New Orleans to Los Angeles):161, 198-99. Washington, Govt. print. off.
Historical and descriptive notes.

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Davis, Emily C.

- 1931 [Ruins at Casa Grande.] In her: Ancient Americans, p. 98.
New York, Henry Holt.

Dellenbaugh, Frederick S.

- 1906 Discovery of Casa Grande. In his: The romance of the Colorado River, pp. 80-82, illus. New York, Putnam.

- 1908 [Casa Grande.] In his: Breaking the wilderness, pp. 68, 120, illus. New York, Putnam.
Descriptive and historical notes.

Dixon, Winifred H.

- 1930 [Casa Grande.] In her: Westward hoboos, pp. 101-02. New York, Charles Scribner's Sons.
Descriptive notes.

Douglas, F. H., joint comp. See: Jeancon, Jean A., 1930.

Duff, U. Francis

- 1902 The prehistoric ruins of the southwest. Records of the past, 1:[66]-75 (Mar.), illus.
Includes notes on the ruins at Casa Grande.

Emory, W. H.

- 1848 [Casa Grande ruin.] In: Notes of a military reconnoissance from Fort Leavenworth, in Missouri, to San Diego, in California, including part of the Arkansas, Del Norte, and Gila rivers, pp. 81-82. 30th U. S. Cong., 1st sess., Sen. ex. doc. 7 (ser. no. 505) Washington, Wendell and Van Benthusen.
Description.

Engelhart, Zephyrim

- 1899 [The visits of Father Kino, Father Keller, and Father Font to Casa Grande.] In his: The Franciscans in Arizona, pp. 26, 28, 92-93. Harbor Springs, Mich., Holy Child Indian School.

Erskine, J. Donald

- 1936 Casa Grande weather. Southwestern mons. mo. rept., (Nov.), Supp.:357-60.
Statistics on climatic conditions at Casa Grande National Monument.

Fast, John E.

- 1936 Bird banding notes. Southwestern mons. mo. rept., (Feb.),

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Suppl.:125-30.

Statistics on numbers and species of birds banded at Casa Grande in the winter of 1905-06.

Felts, W. E., joint author. See: Cosgrove, C. B., 1927.

Fewkes, Jesse W.

1907 Excavations at Casa Grande, Arizona, in 1906-1907. Smithsn. misc. colls., 50:229-229, illus.

Report on the progress of excavation and restoration work being pursued at Casa Grande under the direction of the author.

1907a Type ruins in the southwest. Am. anthro., n.s., 9:652-64 (Ap.-June).

Description of Casa Grande as the best preserved ruin in the Gila River Valley. Notes on its structure and recent excavation work.

1910 Prehistoric ruins of the Gila Valley. Smithsn. misc. colls., 52:403-36, illus.

Includes a description of the Casa Grande ruins and a comparison with other ruins of the Gila River and Salt River valleys.

1912 Casa Grande, Arizona. U. S. Bur. Am. Ethnol., 28th Ann. rept., 1906/C7:33-179, illus. Washington, Govt. print. off.

Detailed description of the Casa Grande ruins and the nearby country. Includes historical material and is illustrated by numerous drawings.

1917 A prehistoric stone mortar from southern Arizona. Washington Acad. Sci., Jour., 7:459-63 (Aug.19), illus. Discusses a mortar found at Casa Grande.

[Fewkes, Jesse W.]

1919 General information regarding Casa Grande National Monument, Arizona. U. S. Dept. Int., Natl. Park Serv., 29 pp., illus. Washington, Govt. print. off.

Detailed and comprehensive description of the Casa Grande ruin and the surrounding ruins. The material in the pamphlet is taken from the report of Dr. Jesse W. Fewkes in the 28th Annual Report of the United States Bureau of American Ethnology.

Fewkes, Jesse W.

1919a [Types of ruins at Casa Grande, Chaco Canyon, and Mesa Verde.] U. S. Bur. Am. Ethnol., Bul. 70:68-76. Washington, Govt. print. off.

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Finger, Charles J.

- 1931 Casa Grande. In his: Adventure under sapphire skies, pp. 131-35. New York, Morrow.
Description of the ruin.

Forrest, Earl R.

- 1929 [Casa Grande ruin.] In his: Missions and pueblos of the old southwest; their myths, legends, fiestas, and ceremonies, pp. 84, 232. Cleveland, A. H. Clark co.

Frothingham, Robert

- 1932 Casa Grande. In his: Trails through the golden west, pp. 125-28. New York, McBride.
Description of the ruins and the surrounding country.

Garces, Father Francisco. See: Coues, Elliott, ed. and tr., 1900.

Gladwin, Harold S., and Gladwin, Winifred

- 1935 The ancient civilization of southern Arizona: Part IV. The eastern range of the red-on-buff culture. Medallion pap. 16, 287 pp., illus., bibliog.
Casa Grande is referred to frequently in the discussion of various culture phases.

Gladwin, Winifred, and Gladwin, Harold S.

- 1933 Some southwestern pottery types. Series III. Medallion pap. 13, 31 pp., illus., bibliog.
Study of red-on-buff pottery types from an area centering at Casa Grande. Illustrated by photographs of pottery specimens and ruin sites at Casa Grande.

- 1934 A method for designation of cultures and their variations. Medallion pap. 15:1-30, illus., bibliog.
Includes a discussion of the ancient culture elements of the Casa Grande area.

Goddard, Pliny E.

- 1913 Indians of the southwest. New York, Am. Mus. Nat. Hist. (Handbook ser., no. 2), 191 pp., illus., maps.
Includes many brief and scattered notes on the Indians and ruins of the Casa Grande area.

- 1928 Native dwellings of North America. Nat. hist., 28:[191]-203 (Mar.-Ap.), illus.
An explanation of the economic factors in American aboriginal societies which determined the types of dwellings erected. Discusses the Casa Grande type.

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Grossman, F. E.

1873 [Casa Grande.] Smithsn. Instn., Ann. rept., 1871:408-09.
Washington, Govt. print. off.

Description of the ruin and notes on the tradition of the Pima Indians that it was built by their ancestors.

Hale, Edward E.

1882 Coronado's discovery of the Seven Cities. Am. Antiquarian Soc., Proc., 1881, 1:236-41 (Apr.27).

Includes a discussion of evidence indicating that Casa Grande was a point of departure for Coronado's expedition.

Hamilton, Patrick, comp.

1883 [Casa Grande.] In: The resources of Arizona, pp. 8, 11, 248, 257-62. San Francisco, A. L. Bancroft and co.

Historical notes and a brief description of the ruin.

[Hanks, Henry G.]

1880 Casa Grande. Californian, 2:[101]-06 (Aug.), illus.

Account of a visit in 1879. Description of the ruins and historical notes.

Hardacre, Emma C.

1878 The cliff-dwellers. Scribner's mo., 17:266-76 (Dec.), illus.

Includes a good description of the ruins at Casa Grande.

Hastings, Russell

1934 Report of archaeological excavations under C W A at Casa Grande National Monument. Southwestern mons. mo. rept., (Mar.), Supp.:A-E, illus., bibliog.

Detailed report on the data and specimens collected during the excavations made at Casa Grande from December, 1933 to February, 1934, with the funds supplied by the Civil Works Administration.

Haury, Emil W.

1931 Minute beads from prehistoric pueblos. Am. anthro., n.s., 33:80-87 (Jan.-Mar.), illus.

Includes a detailed description of beads from Casa Grande.

1936 The Mogollon culture of southwestern New Mexico. Medalion pap. 20, 141 pp., illus., maps, bibliog.

Report of excavations of pit-house villages near Casa Grande National Monument. Numerous sketches and diagrams. Notes on the chronology of the villages and the artifacts discovered.

Hawley, Florence M.

1929 Prehistoric pottery pigments in the southwest. Am. anthro.,

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n.s., 31:731-54 (Oct.-Dec.), maps.

Description of pottery found in the present Casa Grande, Navaho, and Chaco Canyon national monument areas. Gives the formulas for paints used on the pottery.

Hewett, Edgar L.

1905 A general view of the archeology of the pueblo region. Smithsn. Instn., Ann. rept., 1904:583-605, illus. Washington, Govt. print. off.

Discusses classes, preservation, and distribution of ruins in the region which includes Casa Grande and other National Park Service areas.

1930 [Casa Grande ruins.] In his: Ancient life in the American southwest, pp. 292, 296, 348-49, 355. Indianapolis, Bobbs-Merrill co.

Higgins, C. A.

1894 [Historical notes on Casa Grande.] In his: New guide to the Pacific coast, Santa Fe' route, p. 147. Chicago, Rand, McNally.

Hinton, Richard J.

1878 [Casa Grande.] In his: The hand-book to Arizona: its resources, history, towns, mines, ruins and scenery, pp. 177, 407-10, 414-17. San Francisco, Payot, Upham and co.

Descriptions of Casa Grande by Father Kino and by Father Font. Exact measurements of the ruin are given.

Hodge, Frederick W.

1893 Prehistoric irrigation in Arizona. Am. anthro., 6:323-44 (July).

Includes a description of the ruins of an irrigation system at Casa Grande.

1907 Casa Grande. U. S. Bur. Am. Ethnol., Bul. 30 (Handbook of American Indians north of Mexico), pt. I:209-10, illus. Washington, Govt. print. off.
Description of the ruin.

Hodge, Hiram C.

1877 Prehistoric ruins of Arizona. In his: Arizona as it is, pp. 177-95. New York, Houghton Mifflin.
Description of the ruins at Casa Grande.

Hogner, Dorothy C.

1938 Casa Grande--ancient ghost town. In her: Westward, high,

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low, and dry, pp. 78-82, illus. New York, Dutton.
Description of the ruin and historical notes.

Hoover, J. W.

- 1935 House and village types of the southwest as conditioned by aridity. *Sci. mo.*, 40:237-49 (Mar.), illus.
Includes notes on Casa Grande and the ruins at Bandelier National Monument as examples of primitive construction.

Hough, Walter

- 1907 Antiquities of the upper Gila and Salt River valleys in Arizona and New Mexico. *U. S. Bur. Am. Ethnol.*, Bul. 35, 96 pp. Washington, Govt. print. off.
Includes a discussion of the construction and purpose of the Casa Grande ruin.

Huffman, John W.

- 1925 Turquoise mosaics from Casa Grande. *Art and archeol.*, 20: 82-84 (Aug.), illus.

James, George Wharton

- 1915 [Casa Grande.] In his: *Our American wonderlands*, pp. 25-27. Chicago, McClurg.

- c1917 The cliff and cave-dwellers of Arizona. In his: *Arizona, the wonderland*, pp. 51-64, illus. Boston, Page.
Description of the ruins at Casa Grande and elsewhere in the southwest.

[Jeancon, Jean A., and Douglas, F. H., comps.]

- 1930 Periods of Pueblo culture and history. Denver (Colo.) Art Mus., Leaflet 11, 4 pp., map, bibliog.
Includes references to the ruins of the Casa Grande area as examples of Pueblo construction in the period from 900-1350 A. D.

Johnson, Clifton

- 1919 Casa Grande, Petrified Forest, and the Painted Desert. In his: *What to see in America*, pp. 445-46, illus. New York, Macmillan.

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7.

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- Titus, W. A.
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- 1911 [Southwestern prehistoric ruins.] In his: The leading facts of New Mexican history, 1:43-45, illus. Cedar Rapids, Ia., Torch press.
Description and comparison of ruins in Chaco Canyon, Mesa Verde, Canyon de Chelly, and the Hovenweep area.

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- 1917 Chaco Canyon National Monument. In: General information regarding the national monuments set aside under the act of Congress approved June 8, 1908, pp. 11-12, map. U. S. Dept. Int., Natl. Park Serv. Washington, Govt. print. off.

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United States. Smithsonian Institution

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Woods, Margaret S.

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CHIRICAHUA NATIONAL MONUMENT

Anonymous

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Allen, J. A.

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Bancroft, Hubert H.

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Blake, William P.

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Meinzer, Oscar, and Forbes, R. N.

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Powell, Charles E.

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Sauer, Carl O.

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Geography of the Chiricahua area, with a description of Chiricahua National Monument.

Sauer, Carl O., and Brand, Donald G.

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*United States. Forest Service

[1927] Chiricahua National Monument, Coronado National Forest.
2 pp., map.

Leaflet with a description of Chiricahua National Monument on one side and a map of Coronado National Forest on the reverse.

United States. National Park Service

1932-- Southwestern monuments monthly report. Coolidge, Ariz., Southwestern Natl. Monuments.

See this publication of the headquarters staff of the Southwestern National Monuments (called The Epitaph previous to 1932) for information on current conditions at Chiricahua National Monument.

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9.

EL MORRO NATIONAL MONUMENT

Anonymous

1869 The Aztec ruins of New Mexico and Arizona. All the year round [London], n.s., 1:540-44 (May 8).
Includes a description of the ruined Indian dwellings of the area now within El Morro National Monument.

1918 The national monuments of New Mexico. 2. Inscription Rock or El Morro. El Palacio, 5:212-17 (Oct.19), illus.
Description of the rock, the inscriptions and pueblo ruins on it, and historical notes. This is the second of a series of articles.

1925 El Morro National Monument. Am. Scenic and Hist. Preservn. Soc., 30th Ann. rept., 1925:157-58.
Descriptive and historical notes.

Albright, Horace M., and Taylor, Frank J.

1928 El Morro National Monument. In their: Oh, Ranger! pp. 161-62. Stanford Univ., Calif., Stanford Univ. press.
Descriptive and historical notes.

Austin, Mary

c1924 Paso por aqui. In her: The land of journey's ending, pp. 205-31. New York, Century.
Description of the ruins on the summit of Inscription Rock, history of the rock since its discovery, and notes on the inscriptions.

Bailey, Florence M.

1928 [Bird observations at El Morro.] In: Birds of New Mexico, p. 51. Santa Fe, N. M., New Mexico Game and Fish Comm.

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- Yard, Robert S.
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12.

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Anonymous

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1925 Hovenweep National Monument. Am. Scenic and Hist. Preservn Soc., 30th Ann. rept., 1925:144-45. Description of the extent of the monument and the ruins.

Albright, Horace M., and Taylor, Frank J.

1928 Hovenweep National Monument. In their: Oh, Ranger! p. 164. Stanford Univ., Calif., Stanford Univ. press.

Austin, Mary

c1924 [Ruins of ancient towers, Hovenweep National Monument.] In her: The land of journey's ending, pp. 82-83. New York, Century.

Bancroft, Hubert H.

1875 [The size and condition of ruins at Hovenweep.] In his: The native races of the Pacific states of North America, 4:732-33, illus. New York, Appleton.

Bessels, Emil

1876 The human remains found among the ancient ruins of southwestern Colorado and New Mexico. U. S. Geol. and Geog. Surv., Bul., 2:[47]-63, illus., map. Washington, Govt. print. off.

Description of remains found in the Hovenweep area. Discussion of architectural and pottery styles in relation to possible descent of present Pueblo Indians from the ancient inhabitants of these ruins.

[Bethel, Ellsworth]

1924 National monuments in Colorado. Colo. mag., 1:191 (May). Includes brief notes on the size, location, and features of Hovenweep National Monument.

Borah, Leo A.

1936 Utah, carved by winds and waters. Natl. geog. mag., 62: [577]-623 (May), illus.

Includes notes on the features of Hovenweep National Monument.

HOVENWEEP NATIONAL MONUMENT

*Fewkes, Jesse W.

1918 Castles and towers of the Hovenweep. Railroad red book, 35:11-14 (Feb.).

1918b Prehistoric towers and castles of the southwest. Art and archeol., 7:353-66 (Nov.-Dec.), illus.
Discussion of the types of prehistoric architecture of the southwest. Includes many references to the Hovenweep ruins.

1919 Prehistoric villages, castles, and towers in southwestern Colorado. U. S. Bur. Am. Ethnol., Bul. 70, 79 pp., illus. Washington, Govt. print. off.
Discussion of the types of prehistoric structures in southwestern Colorado, with particular reference to the ruins of the Hovenweep and Mesa Verde areas.

1925 The Hovenweep National Monument. Smithsn. Instn., Ann. rept., 1923:465-80, illus., maps. Washington, Govt. print. off.
Description and comparison of the Hovenweep and Mesa Verde ruins and of the pottery and other relics found at Hovenweep.

*Fewkes, Jesse W.

1925a The Hovenweep National Monument. Am. anthro., n.s., 25: 145-55, illus.

Gannett, Henry

1880 Prehistoric ruins in southern Colorado. Pop. sci. mo., 16:666-73 (Mar.).
Includes a description of the Hovenweep ruins.

George, Russell D.

1927 National parks and monuments. In his: Geology and natural resources of Colorado, pp. 181-93. Boulder, Colo., Univ. Colo.
Includes a brief description of Hovenweep National Monument.

Gunckel, Lewis W.

1893 Pictographs and rock-paintings of the southwest. Am. antiquarian, 15:223-29 (July), illus.
Includes notes on the inscriptions and rock-paintings of the Hovenweep area.

Hardacre, Emma C.

1878 The cliff-dwellers. Scribner's mag., 17:266-76 (Dec.), illus.
Includes descriptive notes on the ruins of the Hovenweep area and refers to the discovery of a 500-room ruin by A. D. Wilson of the United States Topographical Corps.

SOUTHWESTERN NATIONAL MONUMENTS

Hewett, Edgar L.

- 1905 A general view of the archeology of the Pueblo region. Smithsn. Instn., Ann. rept., 1904:583-605, illus. Washington, Govt. print. off.
Discussion of classes, preservation, and distribution of ruins in the region which includes the Hovenweep area.

Jackson, William H.

- 1876 Ancient ruins in southwestern Colorado. U. S. Geol. and Geog. Surv. of the terrs., embracing Colorado and parts of adjacent territories, 8th Ann. rept., 1874:369-81, illus. Washington, Govt. print. off.
First official description of the Hovenweep ruins. Notes on other ruins of the region.

- 1876a A notice of the ancient ruins in Arizona and Utah lying about the Rio San Juan. U. S. Geol. and Geog. Surv. of the terrs., Bul., 2:[25]-45, illus., maps. Washington, Govt. print. off.
Detailed description of the Hovenweep ruins, the pottery found in them, and the surrounding country.

- 1878 Report on the ancient ruins examined in 1875 and 1877. U. S. Geol. and Geog. Surv. of the terrs., embracing Colorado and parts of adjacent territories, 10th Ann. rept., pt. III(Archaeology):411-30, illus. Washington, Govt. print. off.
Includes a description of ruins examined in the Hovenweep area.

- 1924 First official visit to the cliff dwellings. Colo. mag., 1:151-59 (May), illus.
Account of visits to the Hovenweep and Mesa Verde ruins while on a government survey expedition in 1874.

[Kidder, Alfred V.]

- 1910 Explorations in southeastern Utah in 1908. Am. jour. archaeol., 2d ser., 14:337-59 (July-Sept.), illus., map.
Includes a description of the ruins in Ruin Canyon, in the Hovenweep area.

Martin, Paul S.

- 1929 The 1928 archaeological expedition of the State Historical Society of Colorado. Colo. mag., 6:[1]-35 (Jan.), illus., map.
Description of some ruins excavated in Ruin Canyon, Hovenweep National Monument and a comparison with ruins of Mesa Verde National Park.

HOVENWEEP NATIONAL MONUMENT

1930 The 1929 archaeological expedition of the State Historical Society of Colorado. Colo. mag., 7:1-40 (Jan.), illus. Includes a detailed description of Beartooth Pueblo in Ruin Canyon, Hovenweep National Monument.

Morgan, Lewis

1881 Ruins of houses of the sedentary Indians of the San Juan River and its tributaries. Contrib. to No. Am. ethnol., 4:154-97, illus. Washington, Govt. print. off. Description of the ruins in the Hovenweep, Mesa Verde, Aztec Ruins, and Chaco Canyon areas and notes on the materials used in their construction.

Morris, Earl H.

1921 Chronology of the San Juan area. Natl Acad. Sci., Proc., 7:18-22 (Jan.). The Hovenweep ruins are in the area discussed.

Nadaillac, (Marquis) de

1885 The cliff-dwellers and inhabitants of the pueblos. In his: Pre-historic America, pp. 198-259, illus. London, Murray. Includes a description of the ruins of the Hovenweep area.

Peet, Stephen D.

1896 History and architecture of the Tusayans. Am. antiquarian, 18:[1]-21 (Jan.), illus. Includes historical and descriptive notes on Tusayan architecture in the Hovenweep area.

1899 The cliff dwellers and pueblos. Chicago, Office of the Am. Antiquarian, 398 pp., illus., maps. Includes material on the Hovenweep ruins.

1904 [The Hovenweep ruins.] In his: Ancient monuments and ruined cities, pp. 201-02, illus. Chicago, Office of the Am. Antiquarian.

Prudden, T. Mitchell

1903 The prehistoric ruins of the San Juan watershed in Utah, Arizona, Colorado, and New Mexico. Am. anthro., n.s., 5: 224-88 (Ap.-June), illus., maps. Description of the ruins at Hovenweep, Mesa Verde, and elsewhere in the southwest.

1918 A further study of prehistoric small house ruins in the San Juan watershed. Am. Anthro. Assn., Mens., 5:3-50 (Jan.-

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Mar.), illus.

Includes descriptions and comparisons of the Hovenweep and Mesa Verde ruins.

Quinn, Vernon

1923 [Hovenweep National Monument.] In his: Beautiful America, pp. 281-82. New York, F. A. Stokes co.

Richardson, George N.

1893 The early Americans. Calif. illus. mag., 4:774-83 (Nov.), illus.

Descriptions of the ruins of the Hovenweep, Mesa Verde, and Natural Bridges areas.

Roberts, Frank H. H., jr.

1925 Report on archeological reconnaissance in southwestern Colorado in the summer of 1923. Colo. mag., 2:[2]-80 (Ap.), illus.

Includes considerable material on the types of structures found in the Hovenweep and Mesa Verde areas.

1929 Certain early Pueblo villages in southwestern Colorado. Smithsn. Instn., Explorations and field-work, 1928:161-68, illus.

Report on archeological investigations in the Pueblo villages of the Hovenweep, Mesa Verde, and Yucca House areas.

Scoyen, Eivind T., and Taylor, Frank J.

1931 [Hovenweep National Monument.] In their: The rainbow canyons, pp. 95-96, illus. Stanford Univ., Calif., Stanford Univ. press.

Short, John T.

1882 [Hovenweep.] In his: The North Americans of antiquity, pp. 304-07. New York, Harper and Bros.

Description of the ruins and notes on the excavations made by William H. Jackson of the government survey expedition in 1874 and 1875.

Taylor, Frank J., joint author. See: Albright, Horace M., 1928.

Taylor, Frank J., joint author. See: Scoyen, Eivind T., 1931.

Thayer, William M.

1888 Cliff-dwellers. In his: Marvels of the new west, pp. 146-71, illus. Norwich, Conn., Henry Bill.

Description of the cliff dwellings of the Hovenweep, Mesa Verde, and Yucca House areas.

HOVENWEEP NATIONAL MONUMENT

Twitchell, Ralph E.

- 1911 [Southwestern prehistoric ruins.] In his: The leading facts of New Mexican history, 1:43-45, illus. Cedar Rapids, Ia., Torch press.
Includes brief notes on the Hovenweep ruins.

United States. National Park Service

- [1930] Hovenweep National Monument. In: Glimpses of our national monuments, pp. 30-32, illus. U. S. Dept. Int., Natl. Park Serv. Washington, Govt. print. off.

- 1932-- Southwestern monuments monthly report. Coolidge, Ariz., Southwestern Natl. Monuments.
See this publication of the headquarters staff of the Southwestern National Monuments (called The Epitaph previous to 1932) for information on current conditions at Hovenweep National Monument.

United States. Smithsonian Institution

- 1917 Prehistoric remains in New Mexico, Colorado, and Utah. Smithsn. misc. colls., 66:76-92, illus.
Report of excavations and studies in the Hovenweep and Mesa Verde areas in 1916.

- 1918 Prehistoric ruins in southwestern Colorado and southeastern Utah. Smithsn. misc. colls., 68:103-33, illus.
List and descriptions of Hovenweep and Mesa Verde ruins examined in 1917.

Voth, Hazel H., and others

- 1938 Hovenweep National Monument. In: Guide to national parks and monuments west of the Mississippi River, pp. 43, 85. Berkeley, Calif., U. S. Dept. Int., Natl. Park Serv.
Specifies location, area, and date of establishment. Briefly describes the principal features.

Weltfish, Gene

- 1932 [Prehistoric basketry of Hovenweep National Monument.] Smithsn. misc. colls., 87:(no.7)12-16, illus.

Yard, Robert S.

- 1931 Hovenweep National Monument. In his: The national parks portfolio, p. 270. 6th ed., U. S. Dept. Int., Natl. Park Serv. Washington, Govt. print. off.

Young, Levi E.

- 1929 The ancient inhabitants of Utah. Art and archeol., 27: 125-37 (Mar.), illus.
Description of ruins near Hovenweep and Natural Bridges.

SOUTHWESTERN NATIONAL MONUMENTS

13.

MONTEZUMA CASTLE NATIONAL MONUMENT

Anonymous

- 1869 The Aztec ruins of New Mexico and Arizona. All the year round [London], n.s., 1:540-44 (May 8). Includes a description of Montezuma Castle.
- 1898 The rescue of "Montezuma's Castle." Land of sunshine, 10:44-[46] (Dec.), illus. Description of the ruin. Account of the raising of funds to restore it.
- 1903 Vandals destroy our treasures of science. Papoose, 1:9-14 (Mar.). Notes on the destruction of ancient ruins in the southwest. Descriptions of Montezuma Castle and the Petrified Forest.
- 1906 Extermination of the Indians. Am. antiquarian, 28:[309]-13 (Sept.-Oct.). Includes notes on the desecration of Montezuma Castle by souvenir hunters.
- 1910 Montezuma Castle National Monument. Am. Scenic and Hist. Preservn. Soc., 15th Ann. rept., 1910:125-26. Locates the monument and describes the structure built into a cliff which is called Montezuma Castle. Notes on the other ruins.
- 1916 Ethnological work in the southwest. Nation, 102:473-74 (May 4). Refers to investigations carried out at Montezuma Castle National Monument and other ruin sites.
- 1925 Montezuma Castle National Monument. Am. Scenic and Hist. Preservn. Soc., 30th Ann. rept., 1925:133-34. Description of the monument and its features.
- Albright, Horace M., and Taylor, Frank J.
- 1928 Montezuma Castle National Monument. In their: Oh, Ranger! p. 158. Stanford Univ., Calif., Stanford Univ. press.
- Austin, Mary
- c1924 [Montezuma Castle.] In her: The land of journey's ending, p. 90. New York, Century.
- Baxter, Frank C., joint author. See: Colton, Harold S., 1932.

MONTEZUMA CASTLE NATIONAL MONUMENT

Breen, F. S.

- 1906 The Black Mesa Forest Reserve. Forestry and irrig., 12: 149-53 (Mar.), illus.
Includes a description of Montezuma Castle.

Caywood, Louis R., and Spicer, Edward H.

- 1934 Tuzigoot, a prehistoric pueblo of the upper Verde. Mus. No. Ariz., Mus. notes, 6:43-46 (Mar.).
Description of a recently excavated pueblo ruin of considerable size located near Montezuma Castle National Monument.

- 1935 Tuzigoot. Prescott, Ariz., Prescott Chamber of Commerce, 119 pp., illus., bibliog.
Account of the excavation and repair of a pueblo ruin near Montezuma Castle National Monument. Discussion of the life and customs of the Indians of the region.

Caywood, Louis R.

- 1935 Tuzigoot--the excavation and repair of a ruin on the Verde River near Clarkdale, Arizona. Southwestern mons. mo. rept., (May), Supp.:248-54, maps.
The Tuzigoot pueblo ruin is near Montezuma Castle National Monument.

- 1936 Proposed museum exhibits plan for Montezuma Castle. Southwestern mons. mo. rept., (Mar.), Supp.:195-222, illus., bibliog.

Colton, Harold S., and Baxter, Frank C.

- 1932 Verde Valley and Tonto Basin. In their: Days in the Painted Desert and the San Francisco Mountains, pp. 90-97, maps. 2d ed., Flagstaff, Ariz., Mus. No. Ariz.
Includes descriptions of Montezuma Castle and Montezuma Well.

Cummings, Byron

- 1920 The national monuments of Arizona. Art and archeol., 10: 27-36 (July-Aug.), illus.
Includes historical and descriptive notes on Montezuma Castle.

[Curtis, William E.]

- 1911 [The greatest museum of natural history in the world, Arizona.] Am. antiquarian, 33:63-67 (Apr.-June).
Includes a detailed description of Montezuma Castle.

De Long, Sidney R.

- 1905 Montezuma's Well. In his: The history of Arizona, p. 82. San Francisco, Whitaker and Ray.

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- Domenech, Abbe Emmanuel H. D.
1860 [Montezuma Castle.] In his: Seven years' residence in the great deserts of North America, 1:383-84. London, Longman, Green.
- Douglas, F. H., joint comp. See: Jeancon, Jean A., 1930.
- Douglass, Andrew E.
1901 Montezuma's Well and the Soda Spring, Arizona. Land of sunshine, 14:[290]-99 (Ap.), illus.
Account of an exploration in the vicinity of Montezuma Well and Montezuma Castle.
- Faris, John T.
1920 [Montezuma Castle National Monument.] In his: Seeing the far west, p. 131. Phila., J. B. Lippincott co.
- Fernow, Bernhard E.
1897 The forests and deserts of Arizona. Natl. geog. mag., 8: 203-26 (June), illus.
Includes descriptive notes on Montezuma Castle.
- Fewkes, Jesse W.
1898 [Montezuma Castle and some nearby ruins.] U. S. Bur. Am. Ethnol., 17th Ann. rept., 1895/96, pt. II:546-49, 563.
Washington, Govt. print. off.
- 1912 [Montezuma Castle; a typical Verde Valley cliff dwelling.] U. S. Bur. Am. Ethnol., 28th Ann. rept., 1906/07:194-95.
Washington, Govt. print. off.
- Frothingham, Robert
1932 Montezuma's Castle. In his: Trails through the golden west, pp. 117-25. New York, McBride.
Description of the ruin and the surrounding country.
- Gladwin, Winifred, and Gladwin, Harold S.
1934 A method for designation of cultures and their variation. Medallion pap. 15, 30 pp., illus., bibliog.
Includes a discussion of the ancient culture elements of the Montezuma Castle region.
- Hall, Sharlot M.
1898 Prehistoric fancy-work. Land of sunshine, 8:221-23 (Ap.), illus.
Description of prehistoric lace found wrapped around the skeleton of a child at Montezuma Castle.

MONTEZUMA CASTLE NATIONAL MONUMENT

Hewett, Edgar L.

- 1905 A general view of the archeology of the Pueblo region. Smithsn. Instn., Ann. rept., 1904:583-605, illus. Washington, Govt. print. off.
Discussion of classes, preservation, and distribution of archeological remains in the region which includes the Montezuma Castle area.

Hodge, Frederick W., ed.

- 1912 Montezuma Castle. U. S. Bur. Am. Ethnol., Bul. 30(Handbook of American Indians north of Mexico), pt. I:935-36, illus. Washington, Govt. print. off.
Description of the ruin.

Jackson, Earl

- 1935 Montezuma Castle museum discussion. Southwestern mons. mo. rept., (Feb.), Supp.:82-89.
Outline of a plan for a museum display on the relation of Montezuma Castle to the surrounding culture.

James, George Wharton

- 1915 [Montezuma Castle.] In his: Our American wonderlands, pp. 31-35. Chicago, McClurg.
Descriptive notes.

- 1917 [Montezuma Castle and Montezuma Well.] In his: Arizona, the wonderland, pp. 13, 56, 63, 373. Boston, Page.
Descriptive and historical notes.

[Jeancon, Jean A., and Douglas, F. H., comps.]

- 1930 The Pueblo golden age. Denver (Colo.) Art Mus., Leaflet 14,4 pp., illus., bibliog.
Refers to Montezuma Castle as an example of the best in Pueblo architecture.

Laut, Agnes C.

- 1913 Why go abroad? Sunset, 30:156-64 (Feb.); 243-49 (Mar.), illus.
Discusses the types of ruins found at Montezuma Castle, Casa Grande, and other National Park Service areas of the southwest.

Lummis, Charles F.

- 1896 The southwest wonderland. Land of sunshine, 4:204-13 (Ap.), illus.
Includes a brief description of Montezuma Castle.

- 1897 Montezuma's Castle. Land of sunshine, 6:70-73 (Jan.), illus.
Description of the ruin and notes on its history.

SOUTHWESTERN NATIONAL MONUMENTS

Lummis, Charles F.

1915 [Montezuma's Castle and Montezuma's Well.] In his: Some strange corners of our country, pp. [122]-41, illus. New York, Century.

Detailed description of Montezuma Castle and notes on its ancient inhabitants. Also a description of Montezuma Well and the surrounding country.

1925 [Montezuma Castle and Montezuma Well.] In his: Mesa, canon and pueblo, pp. 283, 294-306. New York, Century.
Descriptive notes.

McClintock, James H.

1916 Arizona's ancient settlements. In his: Arizona, prehistoric, aboriginal, pioneer, modern, pp. 4-17, illus.
Includes a description of Montezuma Castle.

[Manning, William C.]

1875 Ancient pueblos of New Mexico and Arizona. Harper's new mo. mag., 51:327-33 (Aug.), illus.
Includes a description of ruins in and around the Montezuma Castle area.

Mearns, E. A.

1890 Ancient dwellings of the Rio Verde Valley. Pop. sci. mo. 37:745-63 (Oct.), illus.
Includes a description of Montezuma Castle and some artifacts discovered in it.

Mindeleff, Cosmos

1896 Aboriginal remains in Verde Valley, Arizona. U. S. Bur. Am. Ethnol., 13th Ann. rept., 1891/92:185-261, illus., maps. Washington, Govt. print. off.
Discussion of the ruined villages, cavate lodgings, and irrigation systems of the region in which Montezuma Castle is located.

Morris, Earl H.

1928 An aboriginal salt mine at Camp Verde, Arizona. Am. Mus. Nat. Hist., Anthro. paps., 30, pt. III:75-97, illus.
Detailed description of artifacts from an aboriginal salt mine a few miles from Montezuma Castle. The artifacts resembled those found at the Castle.

Munk, Joseph A.

1905 The cliff dwellers. In his: Arizona sketches, pp. 167-80, illus. New York, Grafton.
Includes notes on Montezuma Castle.

MONTEZUMA CASTLE NATIONAL MONUMENT

Nadaillac, (Marquis) de

1885 The cliff-dwellers and inhabitants of the pueblos. In his: Pre-historic America, pp. 198-259, illus. London, Murray. Includes a description of the ruins of the Montezuma Castle area.

Nelson, William H.

1927 Montezuma's Castle. In his: Alluring Arizona, pp. 7-27. San Francisco, W. H. Nelson. Description of the ruin and the relics found in it. Notes on the former inhabitants.

Peet, Stephen D.

1898 Caves and cliff-dwellings compared. Am. antiquarian, 20: 192-210 (July-Aug.), illus. Discussion of cave and cliff dwellings in the Montezuma Castle, Frijoles Canyon, Canyon de Chelly, and Sunset Crater areas.

1899 The cliff dwellers and pueblos. Chicago, Office of the Am. Antiquarian, 398 pp., illus., maps. Includes material on Montezuma Castle.

Pinart, Alphonse L.

1877 Voyage dans l'Arizona. Paris, Soc. de Geog., Extrait du bulletin de la Societe de Geographie, 16 pp. (Mar.), map. Includes a brief description of Montezuma Castle.

Pinkley, Edna T.

1928 Montezuma Castle. Am. forests and forest life, 34:398-400 (July), illus. Descriptive and historical notes.

Pinkley, Frank

1928 Montezuma's Castle. 24 pp., illus. Pamphlet by the superintendent of the Southwestern National Monuments. No publisher or place of publication given. Detailed description of the ruin and an outline of its history.

Quinn, Vernon

1923 [Montezuma Castle National Monument.] In his: Beautiful America, pp. 274-75. New York, F. A. Stokes co.

Robinson, Will H.

c1919 [Montezuma Castle.] In his: The story of Arizona, pp. 21-22. Phoenix, Ariz., Berryhill co.

1928 [Montezuma Castle.] In his: Under turquoise skies, p. 43. New York, Macmillan.

SOUTHWESTERN NATIONAL MONUMENTS

Saunders, Charles F.

1918 Lodging with Montezuma. Sunset, 40:41-43 (Mar.), illus.
Description of Montezuma Castle.

1928 Montezuma's Castle and Well, which Montezuma never saw.
In his: Finding the worth while in the southwest, pp. 162-
75, illus. New York, McBride.

Spicer, Edward H., joint author. See: Caywood, Louis R., 1934, 1935.

Squier, Ephraim G.

1848 New Mexico and California. The ancient monuments and the
aboriginal, semi-civilized nations. Am. rev., 8:503-28
(Nov.), illus.
Includes a brief description of Montezuma Castle.

Taylor, Frank J., joint author. See: Albright, Horace M., 1928.

United States. National Park Service

1917 Montezuma Castle National Monument. In: General informa-
tion regarding the national monuments set aside under the
act of Congress approved June 8, 1908, pp. 24-26, map.
U. S. Dept. Int., Natl. Park Serv. Washington, Govt.
print. off.

1920- [Reports of the custodian of Montezuma Castle National Mon-
1923 ument.] U. S. Dept. Int., Ann. repts., 1920:322-26; 1922:
155; 1923:179. Washington, Govt. print. off.
No report for 1921 listed by United States Document Cata-
logue.

[1930] Montezuma Castle National Monument. In: Glimpses of our
national monuments, pp. 35-37, illus. U. S. Dept. Int.,
Natl. Park Serv. Washington, Govt. print. off.

1932-- Southwestern monuments monthly report. Coolidge, Ariz.,
Southwestern Natl. Monuments.
See this publication of the headquarters staff of the South-
western National Monuments (called The Epitaph previous to 1932)
for information on current conditions at Montezuma Castle National
Monument.

Voth, Hazel H., and others

1938 Montezuma Castle National Monument. In: Guide to national
parks and monuments west of the Mississippi River, p. 12.
Berkeley, Calif., U. S. Dept. Int., Natl. Park Serv.
Specifies location, area, and date of establishment. Brief-
ly describes the principal features.

MONTEZUMA CASTLE NATIONAL MONUMENT

Whiting, Lilian

1906 [Montezuma Well.] In her: The land of enchantment, p. 257.
Boston, Little, Brown.

Yard, Robert S.

1919 [Montezuma Castle National Monument.] In his: The book of
the national parks, p. 282. New York, Charles Scribner's
Sons.

1931 Montezuma Castle National Monument. In his: The national
parks portfolio, p. 257, illus. 6th ed., U. S. Dept. Int.,
Natl. Park Serv. Washington, Govt. print. off.

SOUTHWESTERN NATIONAL MONUMENTS

14.

NATURAL BRIDGES NATIONAL MONUMENT

Anonymous

- 1904 Colossal natural bridges of Utah. Natl. geog. mag., 15:
[367]-69 (Sept.), illus.
- 1912 Natural Bridges National Monument. Am. Scenic and Hist.
Preservn. Soc., 17th Ann. rept., 1912:259-60, illus., maps.
Description of the bridges and a comparison with others in
the United States.
- 1925 Natural Bridges National Monument. Am. Scenic and Hist.
Preservn. Soc., 30th Ann. rept., 1925:168-69.
Description of the extent of the monument and its features.

Albright, Horace M., and Taylor, Frank J.

- 1928 Natural Bridges National Monument. In their: Oh, Ranger!
p. 163. Stanford Univ., Calif., Stanford Univ. press.

Borah, Leo A.

- 1936 Utah, carved by winds and waters. Natl. geog. mag., 62:
[577]-623 (May), illus.
Includes a description of Natural Bridges National Monument.

Bryan, Kirk, co-author. See: Longwell, C. R., 1925.

Cargill, John F.

- 1909 Utah's White Canyon. World today, 16:62-70 (Jan.), illus.
Account of a trip to Natural Bridges National Monument.

Cleland, Herdman F.

- 1910 North American natural bridges, with a discussion of their
origin. Geol. Soc. Am., Bul., 21:313-38 (July 2), illus.
Includes a discussion of the bridges of Natural Bridges Na-
tional Monument.

Crawford, Robert P.

- 1925 America's mystery land. Mentor, 13:[1]-14 (Aug.), illus.
Includes a brief description of Natural Bridges National
Monument.

Culmer, H. A.

- 1937 Personal diary of H. A. Culmer. Southwestern mons. mo.
rept., (June), Supp.:385-406, map.
Mr. Culmer was the artist for the Salt Lake Commercial
Club's expedition to the natural bridges of Utah in 1905.

NATURAL BRIDGES NATIONAL MONUMENT

Cummings, Byron S.

- 1910 The ancient inhabitants of the San Juan Valley. Univ. Utah, Bul., 3(no. 3, pt. II), 45 pp., (Nov.), illus.
Includes notes on archeological discoveries in the White Canyon, Natural Bridges National Monument.

- 1910 The great natural bridges of Utah. Natl. geog. mag., 21: [157]-67 (Jan.).
Description of the bridges of Natural Bridges National Monument and of Rainbow Bridge.

- 1910a The great natural bridges of Utah. Univ. Utah, Bul., 3 (no. 3, pt. I), 24 pp., (Nov.), illus., map.
Detailed description and explanation of the formation of the bridges of Natural Bridges National Monuments. Includes notes on natural bridges in general.

Dyar, W. W.

- 1904 The colossal bridges of Utah. Century illus. mo. mag., 68:505-11 (Aug.), illus.
Account of the discovery of the natural bridges and cliff dwellings now included in Natural Bridges National Monument.

Faris, John T.

- 1920 [Natural Bridges National Monument.] In his: Seeing the far west, pp. 51-53. Phila., J. B. Lippincott co.

Gould, C. N.

- 1937 Geological report on Natural Bridges National Monument. Southwestern mons. mo. rept., (Dec.), Supp.:473-77.

Hargrave, Lyndon L.

- 1934 A note on Poncho ruin, Utah. Am. anthro., n.s., 36:490 (July-Sept.).
Brief note on the discovery of a ruin near the Natural Bridges National Monument in 1933.

Hewett, Edgar L.

- 1930 [The Natural Bridges National Monument region.] In his: Ancient life in the American southwest, pp. 279-80. Indianapolis, Bobbs-Merrill co.
Description of the bridges and notes on the archeological interest of the region.

[Holmes, Edwin F.]

- 1907 The great natural bridges of Utah. Natl. geog. mag., 18: 199-204 (Mar.), illus.
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Carr, Harry

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Cummings, Byron

- 1910 The ancient inhabitants of the San Juan Valley. Univ. Utah, Bul., 3(no. 3, pt. II), 45 pp., (Nov.), illus.
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Douglas, F. H., joint author. See: Jeancon, Jean A., 1930.

Eaton, Theodore H., jr.

- 1935 Report on amphibians and reptiles of the Navajo country; based on field work with the Rainbow Bridge-Monument Valley Expedition during 1933. Berkeley, Calif., (Rainbow Bridge-Monument Valley Expedition, Bul. 3), 17 pp., illus., map, bibliog.
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Eaton, Theodore H., jr., and Smith, Geraldine

- 1937 Birds of the Navajo country. Berkeley, Calif., Natl. Youth

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Geological description and history of the area within which Navaho National Monument is located. Co-authors: Ruth N. Martius and Agnes J. Walker.

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Report of an archeological reconnaissance, containing the author's conclusions and recommendations.

Gregory, Herbert E.

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Grey, Zane

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Hargrave, Lyndon L.

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Hawley, Florence M.

1929 Prehistoric pottery pigments in the southwest. Am. anthro., n.s., 31:731-54 (Oct.-Dec.), maps.

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Hoffman, Frederick L.

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Ickes, Anna W.

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Description of these ruins in Navaho National Monument.

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1915 [A trip to Betatakin and Kitsiel ruins, Navaho National Monument.] In his: Our American wonderlands, pp. 38-59, illus. Chicago, McClurg.

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Judd, Neil M.

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colls., 68:74-82 (June), illus.

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National Monument.

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Karbchuer, K. C.

1936 Keet Zeel Canyon vegetation. Southwestern mons. mo. rept.,
(Ap.), Supp.:318-19.

List of 76 trees, shrubs, and plants found in Keet Zeel
Canyon, Navaho National Monument.

Kidder, Alfred V., and Guernsey, Samuel J.

1919 Archeological explorations in northeastern Arizona. U. S.
Bur. Am. Ethnol., Bul. 65, 288 pp., illus., maps, bibliog.
Washington, Govt. print. off.

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area in 1914 and 1915. Detailed descriptions of sites examined and
relics discovered.

Kidder, Alfred V., joint author. See: Guernsey, Samuel J., 1921.

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1924 Kayenta. In: Papers of the southwestern expedition, no. 1.
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Yale Univ. press.

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Kunz, George F.

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Moore, R. C., co-author. See: Longwell, C. R., 1925.

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Morss, Noel

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Munk, Joseph A.

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Oskison, John

1914 The road to Betatakin. Outing, 64: [393]-409 (July); [606]-23 (Aug.), illus.

Account of a trip to Navaho National Monument from Flagstaff, Arizona. Descriptions of the Betatakin and other ruins.

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Reagan, Albert B.

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[Renaud, Etienne B.]

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Richardson, George N.

1893 The early Americans. Calif. illus. mag., 4:774-83 (Nov.),
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Robinson, Will H.

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aho National Monument.] In his: Under turquoise skies,
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Taylor, Frank J., joint author. See: Albright, Horace M., 1928.

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[1930] Navajo National Monument. In: Glimpses of our national
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See this publication of the headquarters staff of the Southwestern National Monuments (called The Epitaph previous to 1932) for information on current conditions at Navaho National Monument.

United States. Smithsonian Institution

1918 Archeological work in Arizona and Utah. Smithsn. misc. colls., 68:74-83, illus.

Account of excavation and repair of ruins in Navaho National Monument.

Vandiver, Vincent W.

1936 Geology of Navajo National Monument. Southwestern mons. mo. rept., (July), Supp.:45-55, bibliog.

Voth, Hazel H., and others

1938 Navaho National Monument. In: Guide to national parks and monuments west of the Mississippi River, p. 13. Berkeley, Calif., U. S. Dept. Int., Natl. Park Serv.
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Walker, Agnes J., co-author. See: Eaton, Theodore H., jr., 1937a.

Weltfish, Gene

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West, George A.

1926 Notes on the Museum's expedition in 1925; exploration in Navajo Canyon, Arizona. Milwaukee Pub. Mus., Yr. Bk., 5: [7]-39 (1924), illus., map.
Detailed description of the features of Navaho National Monument.

Wetherill, John

1934 Betatakin. Southwestern mons. mo. rept., (June), Supp.: A-B.
History of the Betatakin ruin in Navaho National Monument.

1935 Keet Zeel. Southwestern mons. mo. rept., (Dec.), Supp.: 490-91.

History of the Keet Zeel ruin in Navaho National Monument.
Notes on the artifacts found in it.

Wetherill, Milton

1935 Pictographs. Southwestern mons. mo. rept., (May), Supp.: 263-64, illus.

Description of nine pictographs in a cave near the Betatakin ruin, Navaho National Monument.

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1937 Nature notes from Navajo. Southwestern mons. mo. rept.,
(June), Supp.:408-09, illus.
List of birds, insects, and plants collected in the monu-
ment.

Yard, Robert S.

1919 [Navaho National Monument.] In his: The book of the nation-
al parks, pp. 377-78, illus. New York, Charles Scribner's
Sons.

1931 Navajo National Monument. In his: The national parks port-
folio, p. 265. 6th ed., U. S. Dept. Int., Natl. Park Serv.
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ORGAN PIPE CACTUS NATIONAL MONUMENT

Cosulich, Bernice

1937 Organ Pipe Cactus National Monument. Tucson, 10:5, 12
(June), illus.

General description of the features of the monument.

Gould, Charles N.

1938 Geology of Organ Pipe Cactus National Monument. Southwest-
ern mons. mo. rept., (June), Supp.:455-61.

Description of the organ pipe cactus and the geology of the
monument region. Also notes on the flora, fauna, history, roads,
and water supply.

Hogner, Dorothy C.

1938 [Organ pipe cactus.] In her: Westward, high, low, and dry,
p. 161. New York, Dutton.

Description of the cactus species which is the main feature
of Organ Pipe Cactus National Monument.

Hornaday, William T.

1908 The cactus display. In his: Camp-fires on desert and lava,
pp. 210-27. New York, Charles Scribner's Sons.

Includes a description of the organ pipe cactus of southern
Arizona, which is the main feature of Organ Pipe Cactus National
Monument.

Toll, Roger W.

1932 The finest cactus gardens of the United States. Am. civic
ann., 4:33-37 (1932).

Description of the species which are the main features of
Organ Pipe Cactus, Saguaro, and Joshua Tree national monuments.

United States. National Park Service

1932-- Southwestern monuments monthly report. Coolidge, Ariz.,
Southwestern Natl. Monuments.

See this publication of the headquarters staff of the South-
western National Monuments (called The Epitaph previous to 1932)
for information on current conditions at Organ Pipe Cactus National
Monument.

Voth, Hazel H., and others

1938 Organ Pipe Cactus National Monument. In: Guide to national
parks and monuments west of the Mississippi River, p. 14.
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ly describes the principal features.

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Anonymous

- 1925 Pipe Spring National Monument. Am. Scenic and Hist. Preservation Soc., 30th Ann. rept., 1925:136.
Historical and descriptive notes.

Albright, Horace M., and Taylor, Frank J.

- 1928 Pipe Spring National Monument. In their: Oh, Ranger!
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Heaton, Leonard

- 1933 [Historical facts about Pipe Spring.] Southwestern mons.
mo. rept., (Sept.), Supp.:K-L.

- 1936 Early history of Moccasin. Southwestern mons. mo. rept.,
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Spring,

- 1936a Some early history of Pipe Spring National Monument.
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Judd, Neil M.

- 1926 [Ruins near Pipe Spring.] U. S. Bur. Am. Ethnol., Bul.
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McClintock, James H.

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ing Stationers.
Historical and descriptive notes on Pipe Spring.

Scoyen, Eivind T., and Taylor, Frank J.

- 1931 [Pipe Spring National Monument.] In their: The rainbow
canyons, pp. 90-91, illus. Stanford Univ., Calif., Stan-
ford Univ. press.

Shannon, William J., and Shannon, Hannah M.

- 1916 Pipe Spring memorial. In their: Camera trails through the
southwest, p. 36. Nutley, N. J., Moorfield and Shannon.
Description of the stone fort and the spring.

Taylor, Frank J., joint author. See: Albright, Horace M., 1928.

Taylor, Frank J.

- 1929 The story of Utah's Dixie. Sunset, 62:20-23 (Mar.), illus.

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Taylor, Frank J., joint author. See: Scoyen, Eivind T., 1931.

United States. National Park Service

[1930] Pipe Spring National Monument. In: Glimpses of our national monuments, pp. 52-53, illus. U. S. Dept. Int., Natl. Park Serv. Washington, Govt. print. off.

1932-- Southwestern monuments monthly report. Coolidge, Ariz., Southwestern Natl. Monuments.

See this publication of the headquarters staff of the Southwestern National Monuments (called The Epitaph previous to 1932) for information on current conditions at Pipe Spring National Monument.

1938 Pipe Spring National Monument. In: Zion and Bryce Canyon national parks, p. 33. U. S. Dept. Int., Natl. Park Serv. Washington, Govt. print. off.
Historical note.

Vandiver, Vincent W.

1937 Pipe Spring National Monument. Southwestern mons. mo. rept., (Feb.), Supp.:111-22, maps, bibliog.
Account of the history and description of the geography and geology of this monument.

Voth, Hazel H., and others

1938 Pipe Spring National Monument. In: Guide to national parks and monuments west of the Mississippi River, p. 16. Berkeley, Calif., U. S. Dept. Int., Natl. Park Serv.
Specifies location, area, and date of establishment. Briefly describes the principal features.

Yard, Robert S.

1931 Pipe Spring National Monument. In his: The national parks portfolio, p. 267. 6th ed., U. S. Dept. Int., Natl. Park Serv. Washington, Govt. print. off.

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Account of a trip to Rainbow Bridge via Navaho National Monument.

Bernheimer, Charles L.

1923 Encircling Navajo Mountain with a pack train. Natl. geog. mag., 43:197-224 (Feb.), illus.

Account of an attempt to discover a passage west of Navajo Mountain to Rainbow Bridge. Description of the bridge, the nearby country and its fauna.

1924 Rainbow Bridge; circling Navajo Mountain and explorations in the "bad lands" of southern Utah and northern Arizona. Garden City, N. Y., Doubleday, Page, 182 pp., illus., maps. Account of three explorations of the vicinity of Navajo Mountain. Includes descriptive material on Rainbow Bridge and the surrounding country.

Borah, Leo A.

1936 Utah, carved by winds and waters. Natl. geog. mag., 62: [577]-623 (May), illus.

Includes notes on Rainbow Bridge National Monument.

Bryan, Kirk, co-author. See: Longwell, C. R., 1925.

Colton, Harold S., and Baxter, Frank C.

1932 Rainbow natural bridge. In their: Days in the Painted Desert and the San Francisco Mountains, p. 68. 2d ed., Flagstaff, Ariz., Mus. No. Ariz.

Cummings, Byron

1910 The great natural bridges of Utah. Natl. geog. mag., 21: [157]-67 (Jan.).

Description of the Rainbow Bridge and other natural bridges of Utah.

1910a The great natural bridges of Utah. Univ. Utah, Bul., 3 (no. 3, pt. I), 24 pp., (Nov.), illus., map.

Detailed description and explanation of the formation of natural bridges, including material on Rainbow Bridge.

Dixon, Winifred H.

1930 Rainbow Bridge. In her: Westward hoboos, pp. 270-95, illus. New York, Scribner's.

Description of the bridge and the surrounding country.

Eaton, Theodore H., jr.

1935 Report on amphibians and reptiles of the Navajo country; based on field work with the Rainbow Bridge-Monument Valley

RAINBOW BRIDGE NATIONAL MONUMENT

Anonymous

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- 1903 The White Sands of New Mexico. Out west, 19:385-87 (Oct.), illus.
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WUPATKI NATIONAL MONUMENT

Anonymous

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Short, John T.

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Yard, Robert S.

- 1931 Wupatki National Monument. In his: The national parks portfolio, p. 269. 6th ed., U. S. Dept. Int., Natl. Park Serv. Washington, Govt. print. off.

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Anonymous

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Description of the features of the monument and its extent.

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- 1924 National monuments in Colorado. Colo. mag., 1:191 (May).
Includes brief notes on Yucca House National Monument.

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Gannett, Henry

- 1880 Prehistoric ruins in southern Colorado. Pop. sci. mo.,
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Henderson, Palmer

- 1893 Cliff-dwellers' houses. Am. antiquarian, 15:170-72 (May).
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Hewett, Edgar L.

- 1920 Antiquities of Colorado. Art and archeol., 10:39-43 (July-Aug.), illus.
Description of the ruins at Yucca House and Mesa Verde.

- 1920a Prospective national monuments. Proposed national monuments districts and system of state monuments. Art and archeol., 10:47-53 (July-Aug.), illus.
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Holmes, William H.

- 1920 Description of Yucca House. Art and archeol., 10:42 (July-Aug.), illus.

Jeancon, Jean A.

- 1925 Primitive Coloradoans. Colo. mag., 2:35-40 (Jan.).
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- Morgan, Lewis
1881 Ruins of houses of the sedentary Indians of the San Juan River and its tributaries. Contrib. to No. Am. ethnol., 4:154-97, illus. Washington, Govt. print. off.
Description of the ruins in the Yucca House, Chaco Canyon, Hovenweep, Mesa Verde, and Aztec areas.
- Prudden, T. Mitchell
1903 The prehistoric ruins of the San Juan watershed in Utah, Arizona, Colorado, and New Mexico. Am. anthro., n.s., 5: 224-88 (Ap.-June), illus.
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- Quinn, Vernon
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- Roberts, Frank H. H., jr.
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- Taylor, Frank J., joint author. See: Albright, Horace M., 1928.
- Thayer, William M.
1888 Cliff-dwellers. In his: Marvels of the new west, pp. 146-71, illus. Norwich, Conn., Henry Bill.
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- United States. National Park Service
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See this publication of the headquarters staff of the Southwestern National Monuments (called The Epitaph previous to 1932) for information on current conditions at Yucca House National Monument.

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VII. SOUTHWESTERN STATES

(Exclusive of Southwestern National Monuments)

SOUTHWESTERN STATES

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1891 [An excursion through the Black Canyon of the Gunnison.]
In his: A history of the excursion of the Society of California Pioneers of New England, pp. 229-34, illus. Boston, Lee and Shepard.
- Bancroft, Hubert H.
1890 [Black Canyon of the Gunnison.] In his: History of Nevada, Colorado, and Wyoming (Bancroft's Works, vol. 25), pp. 326-28. San Francisco, History co.
Description.
- Branson, E. B.
1925 Course of the Gunnison River in Colorado. Geol. Soc. Am., Bul., 36:139 (Mar.).
Abstract. Notes on the course of the river in relation to rock structure. Includes reference to the Black Canyon.
- Buel, James W.
1894 [Black Canyon of the Gunnison.] In his: America's wonderlands, pp. 113-14, illus. Vancouver, B. C., J. M. MacGregor.
- Campbell, Marius R.
1922 [Black Canyon of the Gunnison.] U. S. Geol. Surv., Bul. 707 (Guidebook of the western United States, Pt. E):172-75. Washington, Govt. print. off.
- Carhart, Arthur
1932 Black Canyon. In his: Colorado, pp. 254-56. New York, Coward-McCann.
Description of this canyon of the Gunnison River.
- Creer, Leland H.
1929 The explorations of Gunnison and Beckwith in Colorado and Utah, 1853. Colo. mag., 6:184-92 (Sept.).
Account of Captain J. W. Gunnison's explorations while seeking a railroad route through the Rocky Mountains. He traveled in the region of the present Black Canyon of the Gunnison National Monument.
- Cross, Roselle T.
1921 [A visit to the Black Canyon of the Gunnison River.]
In her: My mountains, pp. 173-74. Boston, Stratford.

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- 1935 [Geological notes on the Black Canyon of the Gunnison.]
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Faris, John T.

- 1930 [Black Canyon of the Gunnison.] In his: Roaming the Rock-
ies, p. 274. New York, Farrar and Rinehart.
Brief description.

- 1934 Now for Colorado! In his: Roaming American playgrounds,
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nison River.

Fellows, A. L.

- 1903 The Gunnison tunnel. Forestry and irrig., 9:530-37 (Nov.),
illus.
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the Uncompahgre Valley by means of a tunnel at the Black Canyon.

- 1904 [Investigations for dam sites around the Black Canyon of
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Fenneman, Nevin M.

- 1931 [Physiography of the Black Canyon of the Gunnison area.]
In his: Physiography of western United States, p. 117.
New York, McGraw-Hill Book co.

Finger, Charles J.

- 1932 The Black Canyon. In his: Foot-loose in the west, pp. 82-
86. New York, Morrow.
Account of a visit to the Black Canyon and a brief descrip-
tion.

Fountain, Paul

- 1906 [Black Canyon of the Gunnison.] In his: The eleven eaglets
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- 1917 The Blue River of Colorado. Outing, 70:157-67 (May), illus.
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ticle describes the Black Canyon, through which the river runs for
forty miles.

Hunter, J. Fred

- 1925 [Geology of the Black Canyon of the Gunnison.] U. S. Geol.

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Ingersoll, Ernest

1885 Impressions of the Black Canon. In his: Crest of the continent, pp. 266-72, illus. Chicago, R. R. Donelley. General description.

Jackson, William H., and Wood, Stanley

1894 The Rocky Mountains. Denver, Colo., H. H. Tamm, 38 pp., illus.

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Jeancon, Jean A.

1926 Pictographs of Colorado. Colo. mag., 3:[33]-45 (May), illus.

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Larsen, Esper S., joint author. See: Cross, Whitman, 1935.

McConnell, I. W.

1904 Topographic work in the Grand Canyon of the Gunnison. U.S. Geol. Surv., Water-supp. and irrig. pap. 93:162-67, map. Washington, Govt. print. off.

Account of surveying work in the deepest and most inaccessible parts of the Black Canyon of the Gunnison River.

McMechen, E. C.

1932 Altars of the outdoors. Nature mag., 19:279-82 (May), illus.

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Parsons, Eugene

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Root, George A.

1932 Gunnison in the early eighties. Colo. mag., 9:[201]-13 (Nov.), illus.

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Sherrick, Fannie

1886 In the Rocky Mountains. Pac. rural press, 32:466 (Dec.4). Description of the Black Canyon and the Aspen district.

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[Smiley, Jerome C.]

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1888 The Black Canon. In his: Marvels of the new west, pp. 6-10, illus. Norwich, Conn., Henry Bill. Description of the canyon.

United States. Department of Interior

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1938 National Monument.] U. S. Dept. Int., Ann. repts., 1934-1938. Washington, Govt. print. off.

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Warner, Mark T.

1934 Black Canyon of the Gunnison National Monument. Colo. mag., 11:86-97 (May), illus. Description of the geology, stratigraphy, flora, and fauna of the monument region.

Wood, Stanley

1889 Black Canon of the Gunnison. In his: Over the range to the Golden Gate, p. 47. Chicago, R.R. Donnelley. Brief descriptive note.

Wood, Stanley, joint author. See: Jackson, William H., 1894.

BOULDER DAM RECREATION AREA

Anonymous

- 1930 Boulder Dam. In: Bur. Reclamation, Fed. Irrigation Projects, p. 7. Washington, Govt. print. off.
- 1931 The worth of the Boulder Dam Project. Reclamation era, vol. 27, no. 1 (Jan.).
- 1933 Administration of the Boulder Dam Project area. Sci., n.s., 77:233 (Mar. 30).
Announcement of the approval by Ray Lyman Wilbur, Secretary of the Interior, of the bill providing for the efficient and economical accomplishment of the project, and entrusting the responsibility to the National Park Service. The recreational and educational possibilities of the area are considered.
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- 1933a Boulder Canyon Lake to be wildlife sanctuary. Am. forests, 39:182.
This great artificial lake will become a refuge and breeding ground for birds and animals. This refuge, covering about 620,000 acres, will be an oasis in an otherwise arid country on one of the southward migration routes, a way station from the Klamath Lake Refuge in Oregon to the Gulf of California.
- 1937 Boulder Dam playground. Am. forests, 43:35 (Jan.).
A brief description of the Boulder Dam Recreation area.
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- 1937a Imperial irrigators grateful for Boulder Dam. Reclamation era, 27:2 (Jan.).
Imperial irrigators are now grateful for Boulder Dam, for they are no longer threatened with flood and drought each year, and have an ample supply of water for their crops.
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- 1937b Lake Mead does not alter weather. Reclamation era, 27:8 (Jan.).
Facts are given to prove that Lake Mead does not alter weather conditions in the Southwest.

Freeman

- 1923 Binding the river. In his: The Colorado River, yesterday, today and tomorrow, pp. 365-437, illus., map. New York, Dodd, Mead.
History of the Boulder Dam project.

Hess, John M.

- 1918 Colorado River drainage basin. Irrigation age, 33:41-2

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188-91 (Sept.-Oct.), 204-7 (Nov.), illus., map.

Houk, Ivan E.

1937 Mead Lake temperature measurements. Reclamation era, 27:
216-7 (Sept.), illus.

La Rue, E. C.

1925 Water power and flood control of the Colorado River below
Green River, Utah. U. S. Geol. Surv., water supply paper
556, 176 pp., illus., maps, index.

A report to determine the relative value of the dam sites on
the Colorado River. Boulder Dam is described.

Schellbach, Louis III

1935 Report on an inspection trip to proposed Boulder Dam State
Park, Clark County, Nevada. Typescript, 49 pp. in Western
Mus. Lab. of Natl. Park Serv. Berkeley, Calif.

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developments in the area, with recommendations for continuing the work.

Smiley, Dwight C.

1937 Water birds of the Boulder Dam region. Condor, 39:115-9, map.
A study of migratory bird life in relation to the Lake Mead
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Spearman, Rupert B.

1937 Boulder Dam elevators. Reclamation era, 27:1-2 (Jan.), illus.
A description of the elevators used at Boulder Dam.

Young, Walker R.

1937 Boulder Dam plays its part in reclamation. Reclamation era,
27:26-8 (Feb.), illus.

A general discussion of the value of Boulder Dam. It pro-
vides electric power, regulation of the Colorado River to prevent
floods, adequate water supply for irrigation and domestic use, and
silt control.

CAPITOL REEF NATIONAL MONUMENT

Anonymous

1937 Capitol Reef area dedicated. Park Serv. bul., 7:9 (Nov.).
Brief account of the ceremonies at the dedication.

1937 Capitol Reef in Utah set aside as national monument. Park
Serv. bul., 7:2 (Sept.).

Note on the establishment of this monument, Aug. 2, 1937
and a brief description. "Colorful buttressed sandstone cliff 20
miles long.... name derived from dome-shaped formations of white
sandstone which crown reddish brown strata."

United States. Department of Interior

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Govt. print. off.

CARLSBAD CAVERNS NATIONAL PARK

- Anonymous
1923 Carlsbad Cavern in New Mexico. Sci., n.s., 58, Supp.:
xii-xiv (Dec.14).
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Anonymous

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Shannon, William J., and Shannon, Hannah M.

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Cedar Breaks is among the areas pictured.

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Voth, Hazel H., and others
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Anonymous

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Account of the discovery of remarkable dinosaur remains at the site of the present monument by Professor E. B. Douglass in 1909. Brief description of the monument.

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Description of the features and extent of the monument.

Albright, Horace M., and Taylor, Frank J.

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Brief description.

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Description.

Gilmore, Charles W.

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Gilmore, Charles W.

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Notes on the geology, flora, and fauna.

Lee, Willis T.

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Pack, Frederick J.

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Peterson, O. A.

1919 Report upon the material discovered in the upper Eocene of
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Dinosaur National Monument is among the areas pictured.

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64. New York, Putnam.

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FOREWORD

The following references to the literature of Grand Canyon National Park represent a selection gathered by workers on a research project sponsored by the National Park Service in collaboration with the Work Projects Administration. These pages form part of a larger volume which includes other national parks and monuments in the West.

The references, in general, include material published through 1936, although there are many items of more recent date. Fiction, poetry, and maps have been excluded. Reprints, abstracts, and book reviews usually have been cited only when the originals have not been available. A few references which were not available for examination and verification of data, but which seemed valuable, have been included. These have been marked by an asterisk. The scope and flexibility of the bibliography has been increased by the free use of analytic references, or relevant portions of books cited as such. If the "Grand Canyon Nature Notes" outnumber all other citations in some sections of the bibliography, it is because of their unique value as source material.

The National Park Service is indebted to the Berkeley Public Library and to the various libraries of the University of California at Berkeley for cooperation in preparing this bibliography.

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INCLUDING HISTORY, TRAVEL, DESCRIPTION,
ADMINISTRATION, ROADS, TRAILS, BRIDGES,
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1934 Are you thinking of national parks? In his: Roaming American playgrounds, pp. 206-23, illus. New York, Farrar and Rinehart.

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- 1893 A day in the Grand Canyon. Outing, 22:261-64 (July).

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- 1929 [The Grand Canyon.] In his: Missions and pueblos of the old southwest; their myths, legends, fiestas, and ceremonies, pp. 171, 211-12, 221, 223-24, 301. Cleveland, A. H. Clark co.
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- 1915 Down the Colorado. Outing, 65:533-46 (Feb.), illus.
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- 1923a [The Powell, Wheeler, and Brown-Stanton expeditions to the Grand Canyon. Grand Canyon National Park.] In his: The Colorado River, yesterday, today and tomorrow, pp. 223-323, 441-51, illus. New York, Dodd, Mead.
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- 1924 Down the Grand Canyon. New York, Dodd, Mead, 371 pp. illus.
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1934 An appreciation of Grand Canyon. In: Picturesque America (J. F. Kane, ed.), p. 87. Rev. ed., New York, Union Lib. Assn.

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1933 In Navajo land. Calif. mo., 31:17-18, 122-25 (Sept.), illus.

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1933 Enchanted sand. New York, Morrow, 275 pp., illus.

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- Holder, Charles F.
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- Holmes, Burton
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- Hutchison, Ann
1934 The Grand Canyon in Arizona. In her: Adventuring on desert roads, pp. 105-22. San Francisco, Harr Wagner.
- Hyatt, A.
1868 The chasms of the Colorado. Am. naturalist, 2:359-65 (Sept.), illus.
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- 1903a The Grand Canyon of Arizona. Overland mo., 2d ser., 41:[423]-32 (June), illus.

Ives, Joseph C., and others

- 1861 Report upon the Colorado River of the west, explored in 1857 and 1858 by Lieutenant Joseph C. Ives, corps of topographical engineers, under the direction of the office of explorations and surveys... [U. S. Army, Engr. dept.] Washington, Govt. print. off., [366] pp., illus., maps, apps.

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- 1933 The Grand Canyon of Arizona. In his: My American friends, pp. 126-31. New York, Macmillan.

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Account of a boat trip on the Colorado River, made by a party of college students. They voyaged from Green River, Utah, through the Grand Canyon, to Needles, Arizona.

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- 1910 Grand Canyon of Arizona; how to see it. Boston, Little, Brown, 265 pp., illus.
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- 1911 [The Grand Canyon of Arizona.] In his: A little journey to some strange places and peoples in our southwestern land, pp. 238-58, illus. Chicago, Flanagan.

- 1915 [The Grand Canyon, the Cataract Canyon, and the Havasupai Indians.] In his: Our American wonderlands, pp. 1-10, 158-66, illus. Chicago, McClurg.

- 1917 The Grand Canyon. In his: Arizona, the wonderland, pp. 98-103, illus. Boston, Page.
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Jeffers, LeRoy

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- 1919a Our newest national park [Grand Canyon.] Motor life, 14:40-41 (Sept.).

- 1922 Grand Canyon Park. In his: The call of the mountains, pp. 193-225. New York, Dodd, Mead.

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- 1922 Silence. Independent, 109:96-98 (Sept.2), illus.
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Johnson, Clifton

- 1908 The Grand Canon in storm. Outing, 52:88-95 (Ap.), illus.
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- 1903 [Coronado's quest for the Seven Cities of Cibola, and explor-
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- 1931 Three scout naturalists in the national parks. New York, Har-
court, 237 pp., illus.
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and Zion national parks. The authors were California "eagle" scouts
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- 1914 Experiences in the Grand Canyon. Natl. geog. mag., 26:[99]-
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Narrative of a journey down the Green and Colorado rivers in rowboats, made to secure a photographic record of the Colorado River canyons. Illustrated by 48 photographic views. The author's brother, Emery, and James Fagin accompanied him on the journey.

Kolb, Emery C., joint author. See: Kolb, Ellsworth L., 1914.

Kolb, Emery C.

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Account of the discovery of the falls and several trips to them.

L., C. Y.

1902 A week of wonders. Out west, 16:19-24 (Jan.), illus.

An appreciation of the beauty of the Grand Canyon. Notes on the sites selected for the new hotels.

LaRue, E. C.

1925 Water power and flood control of Colorado River below Green River, Utah. U. S. Geol. Surv., Water-supp. pap. 556, 176 pp., illus., maps. Washington, Govt. print. off.

Report of a United States Geological Survey study. Contains considerable descriptive material on the Grand Canyon region.

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Leigh, W. R.

1911 Impressions of an artist while camping in the Grand Canyon of the Colorado, Arizona. Out west, 34:15-27 (June), illus.

Description, with good illustrations.

Lemmon, J. G.

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244-56 (Sept.).

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1931 An historical record. Grand Canyon nat. notes, 5:123-24 (Oct.), illus.

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Lippincott, J. B.

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Lockwood, Frank C.

1932 [Cardenas' discovery of the Grand Canyon.] In his: Pioneer days in Arizona. From the Spanish occupation to statehood, pp. 21-24. New York, Macmillan.

Lummis, Charles F.

1892 The verge of the desert. In his: A tramp across the continent, pp.244-54. New York, Scribner's.
Description of the Grand Canyon.

1896 The southwest wonderland. Land of sunshine, 4:204-12 (Ap.), illus.

Includes a brief description of the Grand Canyon.

1897 The country of standing rocks. Land of sunshine, 6:183-86 (Ap.), illus.

Includes a description of the "standing rocks" of the Grand Canyon.

Lummis, Charles F. See: Higgins, C. A., and others, 1902.

Lummis, Charles F.

1915 The grandest gorge in the world. In his: Some strange corners of our country, pp. [1]-19, illus. New York, Century.
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Lutrelle, Estelle

1913 A bibliography of pamphlets and articles on Arizona in the

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University of Arizona Library. Tucson, Ariz., Univ.,
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1911 An automobile trip to the Grand Canyon of Arizona. Out
west, 34:243-45 (Oct.).

*McAllan, Alexander

1913 Ancient Chinese account of the Grand Canyon, or course of
the Colorado. College Corner, O., Snyder, 44 pp., map.

MacCarthy, Fitz-James. See: Higgins, C. A., and others, 1902.

*McCutcheon, John T.

1922 Doing the Grand Canyon. Kansas City, Mo., Fred Harvey,
19 pp., illus.

McHenry, Donald E.

1933 Woodland parks on the North Rim [of the Grand Canyon].
Grand Canyon nat. notes, 8:195-98 (Oct.).

1935 W. H. Edwards. A Colorado River pioneer. Grand Canyon
nat. notes, 9:378-82 (Feb.), illus.
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rado River, 1889-90. Mr. Edwards was a member of the expedition.

McKee, Barbara H.

1933 The naming of the Grand Canyon. Grand Canyon nat. notes,
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McKee, Edwin D.

1932 Greenland Lake. Grand Canyon nat. notes, 6:30 (Feb.),
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Point Imperial and Cape Royal in the Grand Canyon National Park.

1933 On [Grand] Canyon trails. Grand Canyon nat. notes,
8:173-77 (Aug.); 191-94 (Sept.), illus., map.

McKenzie, Kit

1929 Bridging the Grand Canyon. Am. forests, 35:483-85 (Aug.),
illus.

Description of the 500-foot steel bridge across the Colo-
rado River at the foot of Bright Angel Trail. Account of its
construction by Forest Service and Park Service engineers in
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[Malone, George W.]

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Sen. doc. 186, 231 pp., illus., maps. (ser. no. 8989)
Washington, Govt. print. off.

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yon and the Imperial Valley.

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Mason, Harold D.

1916 The Grand Canyon and its wonderful caves. Overland mo., 2d
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Matthes, Francois E.

1927 Breaking a trail through Bright Angel Canyon. Grand Canyon
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Account of the first pack train journey across the Grand Can-
yon. Reprinted in Grand Canyon Nat. Hist. Assn., Bul, 2:18-22, illus

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1896 [The Grand Canyon.] In his: Personal recollections from New
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1901 A new wonder of the world. Overland mo., 2nd ser., 37:786-
90 (Mar.), illus.

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1917 [The Grand Canyon.] In his: Your national parks, pp. 190-
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- Monroe, Harriet. See: Higgins, C. A., and others, 1902.
- Moore, Raymond C., joint author. See: Birdseye, Claude H., 1924.
- Moran, Ruth B.
1924 Thomas Moran; an impression. Mentor, 12:38-52 (Aug.),
illus.
Notes on a landscape painter who did considerable work in
the Grand Canyon. Some of his paintings are reproduced on pp.40-
52 of this issue.
- Moran, Thomas. See: Higgins, C. A., and others, 1902.
- Muir, John
1902 The Grand Canyon of the Colorado. Century illus. mo. mag.,
65:107-16 (Nov.), illus.
Description.
- 1918 The Grand Canon of the Colorado. In his: Steep trails, pp.
347-[82], illus. New York, Houghton Mifflin.
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- Munk, Joseph A.
1905 Canyon echoes. In his: Arizona sketches, pp. 130-50,
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Description of the Grand Canyon.
- Murphy, Thomas D.
1912 The Grand Canyon. In his: Three wonderlands of the Ameri-
can west, pp. 110-75, illus., map. Boston, Page.
Description, illustrated by reproductions of paintings by
Thomas Moran.
- 1925 The Grand Canyon. In his: Seven wonderlands of the Ameri-
can west, pp. 149-82, 186-96, illus. Boston, Page.
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covery and exploration of the canyon region.
- Neill, Ada P.
1919 Bright Angeling on a mule. Outing, 75:75-79, 114 (Nov.),
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Humorous account of a woman's mule-back journey down
Bright Angel Trail to the Colorado River.

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- 1927 Grand Canyon. In his: Alluring Arizona, 39-48, 74, 81-88.
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- 1934 Grand Canyon of the Colorado, in Arizona. In his: Twelve wonders of the western world, pp. 12-16, illus. San Francisco, Danner.

[Newberry, J. S.]

- 1898 The Grand Canyon of the Colorado. Am. antiquarian, 20: 114-17 (Mar.-Ap.).
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Nims, F. A.

- 1892 Through mysterious canons of the Colorado. Overland mo., 2d ser., 19:253-70 (Mar.), illus.
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Pack, Arthur N.

- 1930 From rim to rim. Nature mag., 15:363-66, 397 (June).
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- 1930a The halls of Zion, where rich and fantastic beauty reigns. Nature mag., 16:11-16 (July), illus.
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Parkman, Francis, jr.

- 1856 The Grand Canyon. In his: Prairie and Rocky Mountain life, p. 498, 3d ed., Columbus, O., Miller.

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- 1897a From Chicago to California. Land of sunshine, 7:275-79 (Nov.), illus.
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- *Peabody, Henry G.
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- Peet, Stephen D.
1899 The great plateau and its inhabitants. In his: The cliff dwellers and pueblos, pp. 1-14, illus. Chicago, Office of the Am. Antiquarian.
Descriptive material on the Grand Canyon region, drawn mainly from the report of C. E. Dutton of the United States Geological Survey.
- Peixotto, Ernest
1916 The Grand Canyon, an impression. In his: Our Hispanic southwest, pp. 129-35. New York, Charles Scribner's Sons.
- *Pepin, S. D.
n.d. Origin of Grand Canyon, including discovery and brief history. [Los Angeles, J. A. Alles], 30 pp., illus.
- *Pettee, Florence M.
1918 Exploring Grand Canyon and the American desert. Motor life, 13:38 (July).
- Popham, William L.
1913 Grand Canyon of Arizona romance. Louisville, Ky., World Supply co., 94 pp., illus.
Description
- Powell, John W.
1875 The canons of the Colorado. Scribner's mo., 9:293-310 (Jan.); 394-409 (Feb.); 523-37 (Mar.), illus.
Account of the author's expedition down the Colorado River through the Grand Canyon in 1869.
- 1875a Exploration of the Colorado River of the west and its tributaries. Explored in 1869, 1870, 1871, and 1872, under the direction of the secretary of the Smithsonian Institution. Washington, Govt. print. off., 214 pp., illus.

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1875b An overland trip to the Grand Canon. Scribner's mo., 10: 659-78 (Oct.), illus., map.

Describes explorations and preparations made previous to undertaking a second voyage down the Colorado River. Major Powell made the first voyage down the river and through the Grand Canyon in 1869.

1884 The canons of the Colorado. Chautauquan, 4:564-66 (July). Relates experiences of the party headed by the author which made the first voyage through the Grand Canyon.

1895 Canyons of the Colorado. Meadville, Pa., Chautauqua-Century press, 400 pp., illus. Journal of Major Powell's government explorations of the canyons, with excellent illustrations.

1895a Scenery on the Colorado. Am. antiquarian, 17:240-47 (June), illus. Contains a description of the Grand Canyon.

1915 First through the Grand Canyon. New York, Outing Pub. co., 320 pp. Account of the first exploration of the Colorado River canyons by boat. The author, who led the expedition (1869), was formerly director of the United States Geological Survey.

Prudden, T. Mitchell

1898 Under the spell of the Grand Canyon. Harpers new mo. mag., 97:377-92 (Aug.), illus.

Account of a horseback journey in the canyon. Notes on scenery, trails, and Indians.

1907 The Grand Canyon. In his: On the great American plateau, pp. 36-71. New York, G. P. Putnam's Sons. Account of a horseback trip to the canyon, with descriptive notes.

Quinn, Vernon

1923 [Grand Canyon National Park.] In his: Beautiful America, pp. 51-56, 254. New York, Frederick A. Stokes.

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- Redburn, Ralph A., and Russell, Henry N.
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1899 In the whirlpools of the Grand Canyon of the Colorado.
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Account of the disastrous trip of a railroad survey party,
which cost three lives.
- Rice, William S.
1909 Afoot down the Grand Canyon. Overland mo., 2d ser., 54:
544-50 (Dec.), illus.
Illustrated by photographs made by the author during his
descent of the canyon walls.
- Richardson, Rupert N., and Rister, Carl C.
1934 [Grand Canyon National Park.] In their: The greater south-
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1919 Scenic Arizona. In his: The story of Arizona, pp. 367-78.
Phoenix, Ariz., Berryhill co.
Description of the Grand Canyon.
- 1928 The Grand Canyon. In his: Under turquoise skies, pp. 359-
68, illus. New York, Macmillan.
- Roosevelt, Theodore
1904 Wilderness reserves. Forestry and irrig., 10:250-59
(June); 300-09 (July), illus.
Account of visits to the Grand Canyon, Yellowstone, and
Yosemite. Author's conception of the purpose of national reserves.

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Russell, Henry N., joint author. See: Redburn, Ralph A., 1931.

Saunders, Charles F.

1928 The Grand Canon of the Colorado River in Arizona. In his: Finding the worth while in the southwest, pp. 150-61. New York, McBride.

Scott, James E.

1922 Grand Teton to Grand Canyon. Am. forestry, 28:269-70 (May), illus.
Contains descriptive notes on the canyon.

Scoyen, Eivind T., and Taylor, Frank J.

1931 Bright Angel Canyon. In their: The rainbow canyons, pp. 33-40, illus. Stanford Univ., Calif., Stanford Univ. press.

Shannon, William J., and Shannon, Hannah M.

1936 [Grand Canyon region.] In their: Camera trails through the southwest, pp. 37-43, 51-64, illus. Nutley, N. J., Moorfield and Shannon.

Descriptive notes on the North Rim, the South Rim, and the Kaibab Forest areas.

Simpich, Frederick

1929 Arizona comes of age. Natl. geog. mag., 55:[1]-47 (Jan.), illus., map.

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Simpson, William H.

1917 The Grand Canyon in war time. Am. traveler's gaz., 67: 7-9 (Oct.), illus.

Recommends the canyon as a place to seek peace and quiet.

1918 The Grand Canyon of Arizona. St. Nicholas, 45:483-90 (Ap.), illus.

General description, with an account of the explorations of Major J. W. Powell, 1869-72.

Smith, Dama Margaret

1923 Going down Bright Angel [Trail]. Good housekeeping, 76: 30-31, 181-85 (June), illus.

Description of scenery on this trail in the Grand Canyon.

1930 Grand Canyon ups and downs. In her: I married a ranger,

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Account of a journey through the Grand Canyon.

Stanton, Robert B.

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Account of a railroad survey boat trip down the Colorado River from Grand Junction, Colo., to the Gulf of California in 1889. Descriptions of the Grand Canyon, and Glen, Marble and Narrow canyons.

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Results of a survey. Account of a voyage down the river. Description of the physical features of the Grand Canyon and notes on previous explorations.

1893 Engineering with a camera in the canyons of the Colorado. Cosmopolitan, 15:[292]-303 (July), illus.
Account of a railroad survey expedition to obtain a photographic record of the river banks and walls of the canyons.

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*Steele, David M.

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Includes descriptions of the Grand Canyon and of Glacier National Park.

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Steele, Rufus

- 1925 In Roosevelt's cougar trail. The North Rim of the Grand Canyon opens to a marveling tide of tourists. Outlook, 141:480-82, 484 (Nov.25), illus.
Account of an exploration by Theodore Roosevelt, while on a hunting trip, 1913.

- 1926 The celestial circuit. A six-ring show that has been playing for centuries and is still going strong. Sunset, 56; 24-26, 92-94 (May), illus.
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Stoddard, John L.

- 1898 The Grand Canon of the Colorado. In his: John L. Stoddard's lectures, 10:[105]-204, illus. Boston, Balch.
General description with good illustrations.

Stoddard, John L. See: Higgins, C. A., and others, 1902.

*Stoddard, S. R.

- 1906 The Grand Canyon of Arizona. Ariz. mag., (Aug.):17-28.

Stone, Julius F.

- 1932 Canyon country; the romance of a drop of water and a grain of sand. New York, G. P. Putnam's Sons, 442 pp., illus., map.
Detailed geological history and description of the Grand Canyon region. Contains also descriptions of the scenic beauties, and over 300 illustrations.

Sturdevant, Glen E.

- 1928 A reconnaissance of the northeastern part of Grand Canyon National Park. Grand Canyon nat. notes, 3:1-6 (Dec.).
Report describing the Indian ruins and abandoned mining camps discovered, and the wild animals observed during a sixteen-day exploration.

- 1928a Springtime at the Grand Canyon. Grand Canyon nat. notes. 2:[1] (Mar.31).

- 1928b A visit to an unfrequented part of the Grand Canyon. Grand Canyon nat. notes, 2:[1]-7 (Feb.), illus.
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Swanson, E. B.

1924 Photographing the Grand Canyon fifty years ago. Mentor, 12:50-54 (July), illus.

Account of the making of the first photographs of the canyon, by J. K. Hillers, a member of the second Powell expedition, 1871. Illustrated by reproductions of Hiller's original photographs.

Talman, Charles F.

1924 The river of adventure. Outlook, 136:[474]-77 (Mar.19), illus.

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Taylor, Frank J., joint author. See: Albright, Horace M., 1928.

Taylor, Frank J., joint author. See: Tillotson, Miner R., 1929.

Taylor, Frank J.

1929 The story of Utah's Dixie. Sunset, 62:20-23 (Mar.), illus.

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Taylor, Frank J., joint author, See: Scoyen, Eivind T., 1931.

Thayer, William M.

1888 The Grand Canyon. In his: Marvels of the new west, pp. 34-48, illus. Norwich, Conn., Henry Bill.

Thompson, Ben H.

1933 Toroweap, the new Grand Canyon National Monument. Grand Canyon nat. notes, 8:162-69 (July), illus.
Description of the interesting features.

Tillotson, Miner R.

1928 Grand Canyon illuminated by Aurora Borealis [July 7, 1928]. Grand Canyon nat. notes, 3:2 (July 31).

Tillotson, Miner R., and Taylor, Frank J.

1929 Grand Canyon country. Stanford Univ., Calif., Stanford Univ. press, 108 pp., illus.

Description, and account of explorations in the canyon region. Includes sections on the geology, flora, fauna, and Indians.

Tillotson, Miner R.

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Glen E. Sturdevant, park naturalist, and Fred Johnson, park ranger, were drowned February 20 while crossing the Colorado River on their return from a ten-day scientific expedition.

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Account of the Colorado River exploration made in 1857-58 by a United States War Department party under Lieutenant Joseph C. Ives. "The Explorer" was the specially constructed iron steamer in which the Ives party navigated the river.

Tolson, Hillory A., comp.

1933 Laws relating to the National Park Service, the national parks and monuments. U. S. Dept. Int., Natl Park Serv., 318 pp. Washington, Govt. print. off.
Includes Federal and state legislation affecting Grand Canyon National Park. A supplement covers legislation up to July 1, 1936.

Townsend, C. H. T.

1893 A wagon-trip to the Grand Canon of the Colorado River. Appalachia, 7:48-63 (Feb.).
Account of a trip to collect flora and fauna specimens for the New Mexico College of Agriculture. No scientific information given.

Trego, Frank H.

1929 [The Grand Canyon.] In his: Boulevarded old trails in the great southwest, pp. 40, 155-64. New York, Greenberg.
General description, and notes on prehistoric carvings.

United States. Department of Interior

1920- Reports of superintendents of Grand Canyon National Park.
1930 In: U. S. Dept. Int., Ann. repts., 1920-1930. Washington, Govt. print. off.
According to the United States Document Catalogue there were no reports for 1927 and 1928, and none have been published since 1930.

United States. National Park Service

1938 Grand Canyon National Park, Arizona. U. S. Natl. Park Serv., 34 pp., illus., maps, bibliog. Washington, Govt. print. off.
Compendium of information for the general public. One of the descriptive pamphlets on individual parks and monuments published from 1916-19 as a General Information series, from 1920-27 as a Rules and Regulations series, from 1928-33 as a Circulars series, and from 1934 to date without a series title.

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Van Dyke, John C.

1920 The Grand Canyon of the Colorado. Recurrent studies in impressions and appearances. New York, Charles Scribner's Sons, 218 pp., illus., map.

Detailed and comprehensive description, with material on the flora, fauna, geology, and archeology.

1922 [Grand Canyon notes.] In his: The open spaces, pp. 126-28, 132-34. New York, Charles Scribner's Sons.

Vernon, Paul E.

1930 [Grand Canyon.] In his: From coast to coast by motor, pp. 85-87. New York, W. E. Rudge.

Vorhies, Charles T.

1926 Grand Canyon National Park. In: Naturalist's guide to the Americas (Victor E. Shelford, ed.), p. 568. Baltimore, Williams and Wilkins.

Voth, Hazel H., and others

1938 A general index to Grand Canyon Nature Notes, 1926-35. Berkeley, Calif., U. S. Dept. Int., Natl. Park Serv., 29 pp.

1938a [Grand Canyon National Monument and Grand Canyon National Park.] In: Guide to national parks and monuments west of the Mississippi River, pp. 9-11. Berkeley, Calif., U. S. Dept. Int., Natl. Park Serv.
Specifies locations, areas, and dates of establishment.

Lists and describes the principal features. Gives historical data.

Waesche, Hugh H.

1933 How Pipe Creek received its name. Grand Canyon nat. notes, 8:155-56 (June), illus.

1933a Yesterdays on the Kaibab Trail and Phantom Ranch. Grand Canyon nat. notes, 8:206-08 (Nov.), illus.

Historical notes; particular reference to bridges across the Grand Canyon.

1934 The Grand View copper project. Grand Canyon nat. notes, 8:250-58 (Mar.), illus., map.

History of the Grand View Copper Mine below the South Rim of the Grand Canyon. Account of the methods used to work the mine and description of the region in which it is located.

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Wallace W. Elliott, Co., comps. and eds.

1884 Grand Canyon. In: History of Arizona territory, pp. 113-20, illus. San Francisco, Wallace W. Elliott co. General description.

Ward, Beatrice M.

1920 The Grand Canyon dedication tour. Reclamation record, 11: 370-72 (Aug.), illus.

Account of a tour made by a party from New York, sponsored by the Department of Interior, to witness the dedication ceremonies at Grand Canyon National Park.

Warner, Charles Dudley

1891 [The Grand Canyon region.] In his: Our Italy, pp. 177-200. New York, Harper and Bros.

Warner, Charles Dudley. See: Higgins, C. A., and others, 1902.

Waugh, Frank A.

1918 A plan for the development of Grand Canyon village. U. S. Dept. Agric., Forest Serv., 23 pp. Washington, Govt. print. off.

Discussion of plans for construction of streets, buildings, sewers, and water supply facilities, and recommendations for establishment of local self government.

Wheeler, George M.

1889 Itinerary of Colorado Grand Canyon and river trip of 1871. In: Report upon U. S. Geog. Surv. west of the one hundredth meridian, in charge of Captain Geo. M. Wheeler, pp. 147-71, illus., map. Washington, Govt. print. off.

Includes an outline history of previous explorations in the region, the journal of the voyage, excellent descriptions of canyon scenery, and several full-page lithographs.

[White, James]

1918 Through Grand Canyon on a raft. Outing, 72:128, 130 (May), illus.

Reprint of the narrative of James White, who claimed to have descended the Colorado River through the Grand Canyon in 1867, two years before Major J. W. Powell made his historic voyage.

White, James, and Hawkins, W. W.

1920 Adventures in the canyons of the Colorado by two of its earliest explorers, James White and W. W. Hawkins, with introduction and notes by William Wallace Bass, the Grand Canyon guide. Grand Canyon, Ariz., the authors, 38 pp., illus.

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James White claims to have been the first to make a voyage through the Grand Canyon. His trip was made in 1867, two years before the John W. Powell expedition.

White, William Allen

- 1905 On Bright Angel Trail. McClure's mag., 25:[502]-15 (Sept.)
illus.
Description of the scenery of the Grand Canyon from this trail. Illustrated by colored photographs.

Whiting, Lilian

- 1906 The carnival of the gods. In her: The land of enchantment, pp. 311-38, illus. Boston, Little, Brown.
Descriptive and historical material on the Grand Canyon.

Whittemore, Margaret

- 1931 Dangerous rivers; they are Clyde Eddy's hobby. Nature mag., 17:387-88 (June), illus.
Notes on the experiences of Mr. Eddy during his voyages through the Colorado River rapids and the Grand Canyon.

Wilbur, Ray L., and DuPuy, William A.

- 1931 [Establishment of Grand Canyon Park as a step in conservation.] In their: Conservation in the Department of the Interior, p. 100. Washington, Govt. print. off.

Willey, Day A.

- 1910 Hance of the Grand Canon. Outing, 56:30-31 (Ap.), illus.
Notes on the life and activities of John Hance in the canyon. He was a pioneer of the region and built the first trail into the canyon depths.

Williamson, (Mrs.) M. B.

- 1900 A visit to the Grand Canyon. Hist. Soc. So. Calif., Ann. pub., 4, pt. III:200-05 (1899).
Description, and account of a descent into the canyon.

Winship, George P.

- 1896 The Coronado expedition, 1540-1542. U. S. Bur. Am. Ethnol., 14th Ann. rept., 1892-93, pt. I:329-637, illus., maps, bibliog. Washington, Govt. print. off.

Includes an account of the discovery of the Grand Canyon in 1540 by Coronado's lieutenant, Don Garcia Lopez de Cardenas.

- 1900 Finding the Colorado River. Land of sunshine, 12:[268]-80 (Ap.), illus.
Narrative of the expedition of Coronado in 1540. Contains

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Winship, George P.

1906 Coronado's journey to New Mexico and the great plains, 1540-42. Am. hist. leaflets, 13:1-15.

Includes an account of the discovery of the Grand Canyon by Don Garcia Lopez de Cardenas in 1540.

Yard, Robert S.

1917 The greatest ditch in the world. In his: The top of the continent, pp. 213-44, illus. New York, Charles Scribner's Sons.

Description of the Grand Canyon.

1926 A pageant of creation. In his: The book of the national parks, pp. 328-51, illus. New York, Charles Scribner's Sons.

Description of the Grand Canyon.

1931 The Grand Canyon National Park. In his: The national parks portfolio, pp. 193-215, illus. Washington, Govt. print. off.

1934 The Grand Canyon National Park. In his: Glimpses of our national parks (Isabelle F. Story, ed.), pp. 64-68, illus. Rev. ed., Washington, Govt. print. off.

1934a Grand Canyon, Zion and Bryce. In: Picturesque America (F. J. Kane, ed.), pp. [74]-86, illus., map. Rev. ed., New York, Union Lib. Assn.

Description of these national park regions.

EDUCATION AND MUSEUMS

EDUCATION AND MUSEUMS

Anonymous

- 1927 Grand Canyon visited by leading geologists. Grand Canyon nat. notes, 2:3 (June 30).
Account of the visit of American geologists and paleontologists to complete plans and prepare exhibits for the Yavapai Point trailside museum.
- 1928 [Lectures at Yavapai Point.] Grand Canyon nat. notes, 2:4 (May 31).
Plans for a series of lectures on the origin and history of the Grand Canyon.
- 1929 The Yavapai Station. Grand Canyon nat. notes, 4:7 (Sept. 30).
Brief note on plans to develop the station as an educational observation center.
- 1930 The reference library. Grand Canyon nat. notes, 4:42 (May 31).
Establishment of a scientific library begun with 270 volumes.
- 1932 The Grand Canyon Natural History Association. Grand Canyon nat. notes, 7:1-2 (Ap.).
Outlines purposes and organization of the Association.
- 1932a Technical bulletins. Grand Canyon nat. notes, 7:31-32 (June).
Lists publications on natural history and related subjects issued by the Department of Education and Research at Grand Canyon National Park.
- Albright, Horace M.
- 1933 Desert View Drive in Grand Canyon National Park. U. S. Natl. Park Serv., Guide leaflet 1, 12 pp., illus., map.
Contains a description of the Wayside Museum of Archeology.
- McKee, Edwin D.
- 1931 An archaeological exhibit. Grand Canyon nat. notes, 6:1-2 (Nov.).
Notes on the exhibits being planned for the museum, which will be located in the building donated by Mrs. Winifred MacCurdy.
- Merriam, John C.
- 1930 Plans for education work of a philosophical character at Yavapai Point, Grand Canyon, Arizona. Geol. Soc. Am., Bul., 41:105 (Mar.). Abstract.

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Patraw, P. P.

1930 Yavapai Observation Station. Grand Canyon nat. notes.
4:30 (Mar.).

The observation station and museum as part of the educational system.

Searl, Clyde C.

1931 The goal of Yavapai. Grand Canyon nat. notes, 5:31-
33 (Jan.).

Discusses the purpose of the Yavapai Observation Station; to prepare visitors for a better understanding of the geology of the Grand Canyon.

United States, National Park Service

1931 How Yavapai Station can help you to understand and enjoy
the Grand Canyon. U. S. Natl. Park Serv., Educ. leaflet
1, [4]pp., illus. Washington, Govt. print. off.
Explains the purpose and method of the observation station.
Includes a floor plan.

[White, David]

1929 Interpreting the Grand Canyon. Sci., n.s., 69:671-72
(June 28).

Announcing a plan to exhibit fossils in the Yavapai Point
Observation Station.

FAUNA

AMPHIBIANS, BIRDS, AND REPTILES

FISH AND FISHING

INSECTS

MAMMALS

AMPHIBIANS, BIRDS, AND REPTILES

Specifies when and where this species has been seen in the park.

Garter, Russell K.

- 1935a Some wildlife observations on the canyon floor. Grand Canyon nat. notes, 9:365-67 (Jan.).
A record of the birds and animals seen during a trip into Bright Angel Canyon in November.

- 1936 Bird banding [in the Grand Canyon] from October 15, 1934 to October 15, 1935. Grand Canyon Nat. Hist. Assn., Bul. 4:1-4, illus.
Outlines the problems of bird banding in the canyon.
Lists birds banded and retaken.

- 1936a Preliminary survey of the status of the dusky grouse on the Kaibab Plateau. Grand Canyon Nat. Hist. Assn., Bul. 4:7-8.
Table showing numbers and distribution.

- 1937 Check-list of birds of Grand Canyon National Park. Grand Canyon Nat. Hist. Assn., Bul. 7, 55 pp., illus., map, bibliog.
Includes records of birds up to June 1, 1935.

Hargrave, Lyndon L., and McKee, Edwin D.

- 1933 Bird banding in northern Arizona. Grand Canyon nat. notes, 7:114-16 (Feb.); 121-23 (Mar.), illus.
Two part article. Part two, by Mr. McKee, describes activities at the Grand Canyon station.

Hastings, Barbara

- 1929 The chuckwalla. Grand Canyon nat. notes, 3:2 (May 31).
Notes on a rock lizard common in the Grand Canyon.

Ives, Joseph C., and others

- 1861 Report upon the Colorado River of the west, explored in 1857 and 1858 by Lieutenant Joseph C. Ives, corps of topographical engineers, under the direction of the office of explorations and surveys... [U. S. Army, Engr. dept.] Washington, Govt. print. off., [366] pp., illus., maps, apps.
Includes a report on zoological studies by S. F. Baird, listing birds seen in the general region of the Grand Canyon.

Jenks, Randolph

- 1931 Birding in the Grand Canyon. Grand Canyon nat. notes,

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5:75-77 (June), illus.

Lists birds seen on a trip from Yaki Point to Indian Gardens.

Jenks, Randolph

1931a Some birds and their nests on the Kaibab. Grand Canyon nat. notes 5:101-05 (Aug.), illus.

Survey of bird life on the Kaibab Plateau between June 27 and July 9. Tabular record of 48 species, with descriptions of their nests.

1932 Recent bird records from Havasu Canyon. Grand Canyon nat. notes, 7:53 (Aug.).

Jones, S. B.

1929 The elusive sceloporus. Grand Canyon nat. notes, 4:12-13 (Oct.), illus.

Notes on a lizard common in the Grand Canyon.

1929a Horned toads [in the Grand Canyon]. Grand Canyon nat. notes, 4:1-2 (Sept.30).

McHenry, Donald E.

1933 Rattlesnakes on the canyon rim. Grand Canyon nat. notes, 8:213-14 (Nov.), illus.

McKee, Edwin D.

1927 Birds of the Havasupai Canyon. Grand Canyon nat. notes, 2:2 (Aug.31).

1928 Bird life on the Tonto Platform. Grand Canyon nat. notes, 3:2-3 (June).

1928a The blue-bellied lizard. Grand Canyon nat. notes, 3:3-4 (Aug.).

Notes on the most abundant and widely distributed lizard in the Grand Canyon.

1928b New bird records for park. Grand Canyon nat. notes, 3:2 (Aug.).

Three new species observed in the Grand Canyon; brown creeper, western lark sparrow, and marsh hawk.

1929 Hither and yon! Grand Canyon nat. notes, 4:13-14 (Oct.).
Contains a record of the first bald eagle seen in the Grand

Canyon.

1930 The canyon towhee. Grand Canyon nat. notes, 4:80 (Sept.30),

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illus.

New bird in the Grand Canyon.

1930a The Grand Canyon rattlesnake. Grand Canyon nat. notes,
4:40 (Ap.).

1931 Additional notes on the Tanner Trail trip. Grand Canyon
nat. notes, 5:121-22 (Oct.), illus.
Lists birds and reptiles observed by the author and Vernon
Bailey on a biological reconnaissance in the eastern section of
the Grand Canyon National Park.

1931a Grand Canyon--a barrier to reptiles? Grand Canyon nat.
notes, 5:107-09 (Aug.), illus.
A discussion of the effectiveness of the canyon as a bar-
rier to migration of mammals, birds, reptiles, and plants.

1932 [Arizona spotted owl (*Strixoccidentalis lucida* Nelson)
found in the Grand Canyon]. Grand Canyon nat. notes, 6:
28 (Jan.), illus.

1932a Recent bird notes. Grand Canyon nat. notes, 7:91-92
(Dec.), illus., bibliog.
Records seven new bird species seen in the Grand Canyon
region; Lewis woodpecker, Schufeldt junco, red-naped sapsucker,
ferruginous rough-legged hawk, hooded merganser, horned lark, and
mallard duck.

1932b Some notes on bird feeding and photographing.[in the Grand
Canyon]. Grand Canyon nat. notes, 7:3-5 (Ap.), illus.

McKee, Edwin D., joint author. See: Hargrave, Lyndon L., 1933.

McKee, Edwin D., and Bogert, Charles M.

1934 The amphibians and reptiles of Grand Canyon National Park.
Copeia, 4:178-90 (1934).

A list with notes on specimens examined by the authors
while serving as park naturalists.

McKee, Edwin D.

1934 Pinyon nuts as bird feed. Grand Canyon nat. notes, 9:
272-73 (May).

These nuts are the favorite food of the native birds.

1936 Bird observations in Grand Canyon National Park from Oc-
tober 1, 1934 to October 1, 1935. Grand Canyon Nat. Hist.

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Assn., Bul. 4:9-17, illus.

Reports three new species; white egret, pileated woodpecker, and American pupit. Dates of spring migrations shown in table form. Observations on family life of certain species.

Merriam, C. Hart

1890 Results of a biological survey of the San Francisco Mountain region and desert of the Little Colorado. U. S. Dept. Agric., Bur. of Biol. Surv., No. Am. fauna, 3:35-41. Washington, Govt. print. off.

List of mammals and birds observed in the region of the Grand Canyon.

Searl, Clyde C.

1930 A new bird record. Grand Canyon nat. notes, 4:80 (Sept. 30).

Black-billed magpie (*Pica pica hudsonica*) seen in the Grand Canyon.

1931 Some interesting bird records. Grand Canyon nat. notes, 5:37-38 (Feb.).

List of 31 bird species recorded at Kanab, north of the Grand Canyon.

[Springer, Stewart]

1928 An annotated list of the lizards of Lee's Ferry, Arizona. *Copeia*, 169:100-04 (Oct.-Dec.).

Stein, Lester

1934 Statistical report of bird banding. Grand Canyon nat. notes, 9:274-76 (May).

Charts summarizing bird banding records at Grand Canyon from October, 1932 to March, 1934. Explains value of such data.

Sturdevant, Glen E.

1926 The turkey buzzard (*Cathartes aura*). Grand Canyon nat. notes, 1:[1]-2 (Dec.16).

Notes on a permanent bird resident of the Grand Canyon.

1927 Wild goose. Grand Canyon nat. notes, 1:2 (Ap.20). Canadian wild goose seen in the park.

1927a A winter resident. Grand Canyon nat. notes, 1:1 (Ap.20). Western robin in the Grand Canyon.

Torrey, Bradford

1906 A bird-gazer at the Grand Canon. Atlantic mo., 97:739-47

AMPHIBIANS, BIRDS, AND REPTILES

(June).

Account of an ornithologist's trip to the canyon in December, 1905. Mentions many bird species observed. Reprinted in the author's "Field days in California", pp. 204-31. New York, Houghton Mifflin, 1913.

Watson, Welland A.

1936 An unusual nesting habit. Grand Canyon Nat. Hist. Assn.,
Bul. 4:5-6, illus.

Nesting habits of bluebirds and nuthatches in the Grand
Canyon.

FISH AND FISHING

Anonymous

1928 Inspecting a possible trout stream of Grand Canyon.
Grand Canyon nat. notes, 2:[1]-6 (Ap.30).
Account of a two-day journey to Clear Creek to study the
vegetation and to decide upon the suitability or unsuitability of
the stream for trout stocking.

1929 Clear Creek is stocked with trout. Grand Canyon nat.
notes, 3:3 (Jan.).

1930 Odds and ends. Grand Canyon nat. notes, 4:69-71 (Aug.
30), illus.
Includes notes on the planting of trout eggs in Shinumo
Creek.

Brooks, J. P.

1931 Official report on stocking canyon streams with fish.
Grand Canyon nat. notes, 5:48 (Mar.).

1932 Field observations. Grand Canyon nat. notes, 6:33 (Feb.),
illus.
Explanation of the rapid growth of rainbow trout planted
in Havasu Creek in 1931.

Markley, Chester R.

1931 Early stages in the development of rainbow trout. Grand
Canyon nat. notes, 5:59-60 (Ap.).
Experimental trout planting at Havasu Creek.

Patraw, P. P.

1931 Planting fish eggs in Clear Creek. Grand Canyon nat.
notes, 5:34-35 (Feb.).

Williamson, Robert R., and Tyler, Carol F.

1932 Trout propagation in Grand Canyon National Park. Grand
Canyon nat. notes, 7:11-15 (May), illus.

INSECTS

Anonymous

- 1924 A great forest threatened. Am. forests and forest life, 30:359 (June).
Black, hard-shelled beetles infest trees of the Kaibab Plateau forests.

Hebard, Morgan, joint author. See: Rehn, James A. G., 1908.

McKee, Edwin D.

- 1927 The Papilio tribe of butterflies. Grand Canyon nat. notes, 2:[1]-2 (July), illus.
Description of some of the butterflies found in the Grand Canyon.

- 1928 The polyphemus moth [in the Grand Canyon]. Grand Canyon nat. notes, 3:3-4 (July 31).

- 1931 Giant moths [of the Grand Canyon]. Grand Canyon nat. notes, 5:93-94 (July), illus.

Rehn, James A. G., and Hebard, Morgan

- 1908 An orthopterological reconnaissance of the southwestern United States. Part I: Arizona. Acad. Nat. Sci. of Phila., Proc., 60:365-402 (July), illus.
Includes reference to a few specimens collected in the Grand Canyon.

Searl, Clyde C.

- 1931 Beetles [collected on the Kaibab Trail from the North Rim to Roaring Springs]. Grand Canyon nat. notes, 5:25-26 (Jan.), illus.

- 1931a Dragon-flies at Grand Canyon. Grand Canyon nat. notes, 6:16-18 (Dec.). illus.

- 1931b An interesting bug. Grand Canyon nat. notes, 5:64-65 (May), illus.
Appearance of the cicada, erroneously called locust, in the Grand Canyon.

- 1931c [Lantern fly found in the Grand Canyon.] Grand Canyon nat. notes, 5:77 (June).

- 1931d Some beetles of Grand Canyon. Grand Canyon nat. notes, 5:54-55 (Ap.).

- 1932 An insect observation. Grand Canyon nat. notes, 7:51-52

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(Aug.), illus.

Estimates the life cycle of cecades to be four years in the Grand Canyon environment.

Searl, Clyde C.

1932a Vandals of the sand. Grand Canyon nat. notes, 6:41-42 (Mar.), illus.

Notes on two insects common in the Grand Canyon; the ant lion and the tiger beetle.

Wheeler, William M.

1906 The ants of the Grand Canyon. Am. Mus. Nat. Hist., Bul., 22:329-45.

Results of a brief study. Lists and specifies distribution of species in the canyon

1908 The ants of Texas, New Mexico, and Arizona. Am. Mus. Nat. Hist., Bul. 24:399-484.

Includes notes on some ant species of the Grand Canyon.

Wind, Robert G.

1930 Butterflies of the Grand Canyon. Grand Canyon nat. notes, 4:81-84 (Oct.).

MAMMALS

Anonymous

- 1924 Starvation threatens Kaibab deer. Am. forests and forest life, 30:663, 692-93 (Nov.).
Notes on findings of the committee appointed by Secretary of Agriculture Wallace to investigate the condition of the deer in the Grand Canyon Preserve.
- 1925 The drive of the Kaibab deer. Am. forests and forest life, 31:9 (Feb.),
Preparations to remove 5000-6000 deer from the preserve on the north side of the Grand Canyon to ranges on the south side.
- 1925a The Kaibab deer drive. "An interesting failure." Am. forests and forest life, 31:80 (Feb.).
Account of the failure of the attempt to transfer several thousand deer from the north side of the Grand Canyon to new ranges on the south side.
- 1927 Arizona deer herd hit by starvation. Am. forests and forest life, 33:374 (June).
Starvation the result of overgrazing in Kaibab National Forest, which adjoins Grand Canyon National Park.
- 1927a Canyon walls are a barrier to migration [of animals]. Grand Canyon nat. notes, 2:1-2 (Dec.).
- 1927b Prong-horn antelope colony in the Grand Canyon. Sci., n.s. 66, Supp.: xiv (Aug.26).
Twelve antelope established on the Tonto Plateau as the nucleus of a future herd.
- 1927c Tame deer herd started in Grand Canyon. Grand Canyon nat. notes, 2:1-2 (Oct.).
- 1928 Champion barker. Nature mag., 12:6 (July).
Gila chipmunk of the Grand Canyon region.
- 1928a Deer arrive at Bright Angel Point. Grand Canyon nat. notes, 2:2 (May 31).
A deer herd spends the summer at Bright Angel Point.
- 1928b Kaibab squirrel plentiful. Grand Canyon nat. notes, 2:3 (May 31).
Notes on a white-tailed species found on the North Rim of the Grand Canyon.

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Anonymous

- 1928c Nesting and food habits of the Abert squirrel at Grand Canyon. Grand Canyon nat. notes, 2:1-3 (Jan.), illus.
- 1928d Results of a large crop of pinon nuts. Grand Canyon nat. notes, 2:3 (May 31).
Chipmunk population increased and reforestation aided.
- 1930 Flying the Grand Canyon. Nature mag., 15:260 (Ap.).
Transportation of deer by plane from the Kaibab Plateau to the South Rim.
- 1930a Odds and ends. Grand Canyon nat. notes, 4:56 (June).
First coyotes reported on the bottom of the canyon.

Bailey, Vernon

- 1929 Deer conditions on the Kaibab up to August 5, 1929. Grand Canyon nat. notes, 3:1-2 (Aug.).

- 1929a Life zones of the Grand Canyon. Grand Canyon nat. notes, 3:2-4 (May).
Describes the lower Sonoran and Canadian zones. Lists the plant and animal species.

- 1931 A trip down Tanner Trail. Grand Canyon nat. notes, 5:119-20 (Oct.), illus.
Notes on the fauna and flora of the bottom of the Grand Canyon.

- 1935 Mammals of the Grand Canyon region. Grand Canyon Nat. Hist. Assn., Bul. 1, 42 pp., illus.

Bogert, Charles M.

- 1933 Notes on porcupines of the Grand Canyon region. Grand Canyon nat. notes, 8:137-40 (Ap.), illus.
A study of specimens found in the forests of the Kaibab and Coconino plateaus.

Brown, Perry E.

- 1932 Game survey of Walhalla Plateau. Grand Canyon nat. notes, 7:33-38 (July), illus., map.

Coues, Elliott. See: Powell, John W., 1875.

Count, Earl W.

- 1930 Dining solitaire. Grand Canyon nat. notes, 4:77-78 (Sept. 30).

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Brief descriptive note on a rock squirrel species (*Otospermophilus grammurus grammurus*) frequently seen on the South Rim.

Croft, A. R.

1932 Deer browse on cactus [near Grand Canyon]. Grand Canyon nat. notes, 7:95 (Dec.), illus.

Dixon, Joseph, joint author. See: Wright, George M., 1933.

Fountain, Paul

1901 [The Grand Canyon.] In his: The great deserts and forests of North America, pp. 277-91. New York, Longman, Green and co.
Description of the canyon and its fauna.

1906 [The Grand Canyon.] In his: The eleven eaglets of the west, pp. 291-99. New York, Dutton.
Description, with notes on the flora and fauna.

Goldman, E. A., and Locke, S. B.

1923 The mountain of twenty thousand deer. Am. forestry, 29: 649-53, 682 (Nov.), illus., map.

Description of the Kaibab deer preserve in Grand Canyon National Park. Notes on factors influencing the size of the herd.

Grater, Russell K.

1935 Some wildlife observations on the canyon floor. Grand Canyon nat. notes, 9:365-67 (Jan.).

A record of animals and birds seen during a trip into Bright Angel Canyon in November.

1935a Status of the American pronghorn antelope in Grand Canyon region. Grand Canyon nat. notes, 9:383-88 (Mar.), illus., map, bibliog.

Results of a survey of the numbers, habits, food supply, and range of the pronghorn antelope in the canyon. Notes on protection of the antelope.

*Gregory, Herbert E.

1932 Colorado plateau region. Internatl. Geol. Cong., 16th sess., Guidebook [18], 37 pp., illus., bibliog. Washington, Govt. print. off.

Grinnell, George B.

1924 The starving deer of the Kaibab Forest. Outlook, 136:186-87 (Jan.30), illus.

Explains the overcrowding of the deer range and consequent

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starvation in the Yaibab Forest. Suggests remedies.

Grinnell, George B.

1928 Mountain sheep. Jour. of mam., 9:1-9 (Feb.).

Relates incidents about mountain sheep in Grand Canyon, Rocky Mountain, and Yellowstone national parks.

Hornaday, William T.

1913 The Grand Canyon National Game Preserve. In his: Our vanishing wild life, p. 343. New York, New York Zool. Soc.

Brief mention of "Buffalo" Jones "catalo" experiment in crossing buffalo with wild cattle on the Kaibab Plateau.

Lauzon, H. R.

1929 Cougars on the South Rim of Grand Canyon. Grand Canyon nat. notes, 4:23-24 (Dec.), illus.

The cougars of the canyon are the largest members of a species now practically extinct in many parts of their former range in North America.

Locke, S. B., joint author. See: Goldman, E. A., 1923.

Lutz, Frank E.

1934 From low to high. Grand Canyon nat. notes, 9:327-29 (Oct.), illus.

Notes on flora and fauna of different altitudes in the Grand Canyon. Resume' of the biological studies made in the canyon by the American Museum of Natural History.

McHenry, Donald E.

1932 Recent notes on the American pronghorn antelope of Grand Canyon. Grand Canyon nat. notes, 7:29-30 (June), illus., bibliog.

McKee, Edwin D.

1930 Geological and wild life observations between Bass Canyon and Hermit Canyon. Grand Canyon nat. notes, 5:3-10 (Nov.), illus.

Observations on geological formations, water conditions, animal and plant life, made during a five-day trip.

1931 Grand Canyon--a barrier to reptiles? Grand Canyon nat. notes, 5:107-09 (Aug.), illus.

A discussion of the effectiveness of the canyon as a barrier to migration of mammals, birds, reptiles, and plants.

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McKee, Edwin D.

1931a Pocket mice! Grand Canyon nat. notes, 5:57-58 (Ap.).
Notes on the mice of the Grand Canyon.

1932 A little known mammal. Grand Canyon nat. notes, 7:95
(Dec.), illus.
Grey shrew (*Notiosorex crawfordi*) found on Bright Angel

Trail.

1934 New mammal record for Grand Canyon. Grand Canyon nat.
notes, 9:360 (Dec.).
First bat ever found in the canyon captured September 24,
1934. It was a specimen of *Myotis volans interior*.

1934a Status of the desert bighorn in Grand Canyon National Park.
Grand Canyon nat. notes, 9:294-300 (July), illus.
Includes a summary of observations of desert bighorn sheep
in the park since 1928, giving the places of observation and the
observers' names.

Markley, Chester R.

1931 The badger and its environment [in the Grand Canyon].
Grand Canyon nat. notes, 5:30-31 (Jan.).

1931a The raccoon of Havasupai. Grand Canyon nat. notes, 5:49-50
(Mar.), illus.
Description of the pallid raccoon, a species of Havasupai
Canyon.

1931b The Sonora beaver. Grand Canyon nat. notes, 5:78-80 (June).
Beaver activities in the Grand Canyon region.

Marsh, R. E., joint author. See: Pearson, G. A., 1935.

Merriam, C. Hart

1890 Results of a biological survey of the San Francisco Moun-
tain region and desert of the Little Colorado. U. S. Dept.
Agric., Bur. of Biol. Surv., No. Am. fauna, 3:35-41.
Washington, Govt. print. off.
List of mammals and birds observed in the region of the
Grand Canyon.

Merriam, Charles W.

1928 Cougars not extinct on Kaibab. Grand Canyon nat. notes,
3:3-4 (June).

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Patraw, P. P.

- 1929 Flying deer. Grand Canyon nat. notes, 4:9-10 (Oct.).
Eight deer transported by airplane from the Kaibab Forest to the South Rim of the Grand Canyon.

- 1930 Wild burros of the Grand Canyon. Grand Canyon nat. notes, 4:43-45 (May 31).
Burros lost or strayed from prospectors multiplied so rapidly in a wild environment that they denuded the range land, necessitating a government campaign to exterminate them.

Pearson, G. A., and Marsh, R. E.

- 1935 Timber growing and logging practice in the southwest and in the Black Hills region. U. S. Dept. Agric., Tech. bul. 480, 80 pp., illus., bibliog. Washington, Govt. print. off.
Includes notes on the forest trees of the Grand Canyon, and the damage done young trees by the browsing of the over-abundant and starving deer of the Grand Canyon Game Preserve.

Pearson, Thomas G.

- 1925 The deer of the Kaibab. Nature mag., 5:158-60 (Mar.), illus.
Protection of the deer in the Kaibab Forest has overpopulated the range, causing starvation among the deer.

- 1937 [The Kaibab deer herd.] In his: Adventures in bird protection, pp. 315-22. New York, Appleton-Century.
Relates how the government reduced the number of deer in the Grand Canyon Game Preserve when the herd became too large for the range.

Powell, John W., and Coues, Elliott

- 1875 Exploration of the Colorado River of the west and its tributaries. Explored in 1869, 1870, 1871, and 1872, under the direction of the Secretary of the Smithsonian Institution. Washington, Govt. print. off., 291 pp., illus.
The history of the Powell explorations of the canyons of the Colorado River. Includes a report on the zoology of the region by Elliott Coues.

Redburn, Ralph A.

- 1931 An experiment in Grand Canyon with the American pronghorn. Grand Canyon nat. notes, 6:10-13 (Nov.), illus.
Notes on an attempt to establish a small antelope herd in the park.

- 1932 Mountain lion poses for auto caravan. Grand Canyon nat.

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notes, 7:85-86 (Nov.), illus.
Notes on the lions of the Grand Canyon region.

Redburn, Ralph A.

1932a Mountain sheep record. Grand Canyon nat. notes, 7:94
(Dec.), illus.
Nelson bighorn sheep in the Grand Canyon area.

Roosevelt, Theodore

1916 A cougar hunt on the rim of the Grand Canyon. In his: A
book-lover's holiday in the open, pp. 1-28, illus. New
York, Scribner's.

Scoyen, Eivind T.

1926 Kaibab deer arrives on South Rim. Grand Canyon nat. notes,
1:5-6 (Sept.).
Account of the failure of the attempt to transport 10,000
deer of the Kaibab Plateau herd to the South Rim of the Grand Canyon.

1927 An experimental job. Grand Canyon nat. notes, 1:[1]-4
(Feb.8).
Twelve pronghorn antelope fawns liberated on Tonto Plateau.
Poor forage conditions endanger survival of the herd.

1927a New antelope in the Grand Canyon [from Nevada]. Ariz. wild
life, 1:7-9 (Mar.).

Sturdevant, Glen E.

1926 American beaver (*Castor canadensis mexicanus*). Grand
Canyon nat. notes, 1:1-4 (Aug.).
Contains notes on the beavers indigenous to the Grand Can-
yon region.

1926a The common skunk (*Mephitis mephitis*). Grand Canyon nat.
notes, 1:[1]-4 (Nov.11), illus.
General discussion of the appearance and habits of skunks,
with notes on the skunks of the Grand Canyon.

1928 Antelope for burros. Grand Canyon nat. notes, 3:2 (June
30).
Denudation of the Tonto Platform in Grand Canyon by "om-
nivorous" wild burros caused park officials to replace them with
the nucleus of an antelope herd.

1928a A reconnaissance of the northeastern part of Grand Canyon
National Park. Grand Canyon nat. notes, 3:1-6 (Dec.).

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Report describing among other things the deer, beavers, wild burros, and other animals seen during the sixteen-day trip.

1929 Fawns arrive from Kaibab. Grand Canyon nat. notes, 3:4-5 (Feb.).

Notes on methods used to round up and transport young deer from the Kaibab Plateau to areas needing re-stocking.

Taylor, Frank J., joint author. See: Tillotson, Miner R., 1929.

Thompson, Ben H., joint author. See: Wright, George M., 1933.

Tillotson, Miner R., and Taylor, Frank J.

1929 [Fauna of the Grand Canyon country.] In their: Grand Canyon country, pp. 81-83, 85-89. Stanford Univ., Calif., Stanford Univ. press.

Tyler, Carol F.

1931 Bats [of the Grand Canyon]. Grand Canyon nat. notes, 5: 84-86 (July), illus.

Van Dyke, John C.

1920 The Grand Canyon of the Colorado. Recurrent studies in impressions and appearances. New York, Charles Scribner's Sons, 218 pp., illus., map.

Detailed and comprehensive description, with material on the fauna, flora, geology, and archeology.

Wright, George M.

1933 [Fauna of Grand Canyon National Park.] In their: Fauna of the national parks of the United States, pp. 85, 91-94. U. S. Natl. Park Serv., Contrib. of wild life surv., Fauna ser. 1. Washington, Govt. print. off.
Co-authors: Joseph S. Dixon and Ben H. Thompson.

FLORA

FLORA

Anonymous

1924 A great forest threatened. Am. forests and forest life, 30:359 (June).

Urges the necessity to halt infestation of the Kaibab Plateau forests by the black, hard-shelled beetle.

1927 Arizona red-bud. Grand Canyon nat. notes, 1:4 (May).

Arizona red-bud (*Corcís arizonica*) to be the name of a judas tree species found in the Grand Canyon.

1927a Flora of the Tonto Platform. Grand Canyon nat. notes, 1:7 (May).

Discussion of the adaptation to heat and drought of the flora of an area near the South Rim of the Grand Canyon.

1928 Results of a large crop of pinon nuts. Grand Canyon nat. notes, 2:3 (May 31).

Reforestation aided and the chipmunk population increased.

1933 Additions to Grand Canyon herbarium. Grand Canyon nat. notes, 7:118 (Feb.).

Bailey, Vernon

1929 Life zones of the Grand Canyon. Grand Canyon nat. notes, 3:2-4 (May).

Describes the lower Sonoran and Canadian life zones.

Lists the plant and animal species.

1931 A trip down Tanner Trail. Grand Canyon nat. notes, 5:119-20 (Oct.), illus.

Notes on the flora and fauna of the bottom of the Grand Canyon.

Colton, Harold S., joint author. See: Taylor, William R., 1928.

Count, Earl W.

1929 Manzanita on the South Rim. Grand Canyon nat. notes, 3:2 (June).

1931 [Bright Angel Point.] Grand Canyon nat. notes, 5:117 (Sept.).

Life zones of Bright Angel Point and Bright Angel Canyon.

1931a Russian thistles. Grand Canyon nat. notes, 6:18 (Dec.), illus.

Names and describes some foreign plant pests now common in the Grand Canyon.

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Count, Earl W.

- 1931b Trees gripping the hillside. Grand Canyon nat. notes, 5:116 (Aug.), illus.
Description of the trees on the North Rim and on the steep slopes along Bright Angel Trail.

Coville, Frederick V., and MacDougal, Daniel T.

- 1903 The Grand Canyon of the Colorado. Carnegie Instn. of Washington, Pub. 6 (Desert botanical laboratory of the Carnegie Institution):23, illus.
Description of the various flora belts observed during a descent into the canyon.

[Croft, A. R.]

- 1932 Notes on the Yaki Point burn. Grand Canyon nat. notes, 7: 71-73 (Oct.), illus.
Comment on the plant life appearing on the burned pinon juniper forest area near Yaki Point.

Croft, A. R.

- 1935 Notes on pinyon-juniper reforestation. Grand Canyon nat. notes, 8:151-54 (June), illus.
Observations on natural reforestation after fires near Grand Canyon village.

Dodge, Natt N.

- 1936 Trees of Grand Canyon National Park. Grand Canyon Nat. Hist. Assn., Bul. 3, 69 pp., illus., bibliog.
Lists and describes the 39 tree species of the park.

Eastwood, Alice

- 1919 Early spring at the Grand Canyon near El Tovar. Plant world, 22:95-99 (Ap.), illus.
Describes and gives common and scientific names of wild flowers, shrubs and trees observed on a spring visit.

Fountain, Paul

- 1906 [The Grand Canyon.] In his: Eleven eaglets of the west, pp. 291-99. New York, Dutton.
Description, with notes on the flora and fauna.

*Gregory, Herbert E.

- 1932 Colorado plateau region. Internatl. Geol. Cong., 16th sess., Guidebook [18], 37 pp., illus., bibliog. Washington, Govt. print. off.

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- Hawbecker, Albert C., and Patraw, Pauline M.
1936 Check-list of plants of Grand Canyon National Park. Grand Canyon Nat. Hist. Assn., Bul. 6, 75 pp., illus., map. Supplies both scientific and common names. Describes each species and specifies its distribution.
- Hibbard, H. V.
1928 The geaster or earth star. Grand Canyon nat. notes, 3: 2-3 (Aug.), illus. Description of a fungus common in the Grand Canyon.
- Ives, Joseph C., and others
1861 Report upon the Colorado River of the west, explored in 1857 and 1858 by Lieutenant Joseph C. Ives, corps of topographical engineers, under the direction of the office of explorations and surveys...[U. S. Army, Engr. dept.] Washington, Govt. print. off., [366] pp., illus., maps, apps. Includes a report on botanical studies by Professors Gray, Torrey, Thurber, and Dr. Englemann of the expedition.
- James, George Wharton
1908 Botany of the Grand Canyon. In his: In and around the Grand Canyon, pp. 321-25. Boston, Little, Brown.
- Jones, S. B.
1929 Lightning scarred trees [in the Kaibab Forest]. Grand Canyon nat. notes, 3:5 (Aug.).

1930 Oh, cedar! Grand Canyon nat. notes, 4:42-43 (May 31). Contains a list of the trees in Grand Canyon National Park.
- Lutz, Frank E.
1934 From low to high. Grand Canyon nat. notes, 9:327-29 (Oct.) illus. Notes on flora and fauna of different altitudes in the Grand Canyon. Resume' of biological studies made in the canyon by the American Museum of Natural History.
- McHenry, Donald E.
1932 Demonstration life zone gardens. Grand Canyon nat. notes, 7:81-85 (Nov.), illus. Description of the gardens which exemplify the floras of the various climatic life zones of the Grand Canyon. Lists the plants of each garden.

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McHenry, Donald E.

1932a Prince's plume, a new mustard record. Grand Canyon nat. notes, 7:16-18 (May), illus.
Discussion of the mustard plants of the Grand Canyon region.

1932b Quaking aspen at Grand Canyon. Grand Canyon nat. notes, 7:87-90 (Dec.), illus.
Impressions of the quaking aspen groves on the North Rim as viewed from the air.

1932c Sagebrush in Grand Canyon National Park. Grand Canyon nat. notes, 7:6-7 (Ap.).

1933 Gambel oaks at Grand Canyon. Grand Canyon nat. notes, 7:124-25 (Mar.), illus.
Describes a peculiar oak species which is scattered through the yellow pine forests of the Grand Canyon region.

1934 Canadian zone plants on the South Rim of Grand Canyon. Grand Canyon nat. notes, 9:301-03 (July), illus.

1934a Does mistletoe kill the trees at Grand Canyon? Grand Canyon nat. notes, 9:305-09 (Aug.).

1934b Indian uses of juniper in the Grand Canyon region. Grand Canyon nat. notes, 9:261-71 (Ap.).

1935 Quaking aspen--its future in the park. Grand Canyon nat. notes, 9:361-65 (Jan.), illus., bibliog.

McKee, Barbara H.

1932 The yucca--sword-like yet friendly. Grand Canyon nat. notes, 6:23-24 (Jan.), illus.

Discusses appearance of this desert plant and the uses to which the Havasupai, Navajo, and Hopi Indians put its fruit, leaves, and roots.

McKee, Edwin D.

1929 Grand Canyon lichens. Grand Canyon nat. notes, 4:27-29 (Dec.), illus.

1930 Geological and wild life observations between Bass Canyon and Hermit Canyon. Grand Canyon nat. notes, 5:3-10 (Nov.), illus.

Observations on geological formations, water conditions, plant and animal life, made during a five-day trip.

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- 1931 Grand Canyon--a barrier to reptiles? Grand Canyon nat. notes, 5:107-09 (Aug.), illus.
Discussion of the effectiveness of the canyon as a barrier to migration of mammals, birds, reptiles, and plants.

- 1934 Flora of Grand Canyon National Monument. Grand Canyon nat. notes, 9:316-21 (Sept.), illus.
- Marsh, R. E., joint author. See: Pearson, G. A., 1935.
- Mead, Pauline, See: Patraw, Pauline M.
- Mills, Laura E.
1929 Mushrooms on the Kaibab. Grand Canyon nat. notes, 4:3-4 (Sept.30), illus.
Notes on several species common in the Kaibab area of Grand Canyon National Park.
- Noble, Levi F.
1910 Contributions to the geology of the Grand Canyon, Arizona; the geology of the Shinumo area. Am. jour. sci., 4th ser., 29:369-86 (Jan.); 497-528 (June), maps.
Geological and topographical description, with notes on the vegetation and climate.
- Patraw, Pauline M.
1930 A brief ecological comparison of life zones on the Kaibab Plateau. Grand Canyon nat. notes, 5:13-17 (Dec.), maps.

- 1930a Our cactuses. Grand Canyon nat. notes, 4:38-40 (Ap.), illus.
Contains notes on some cactus species of the Grand Canyon.

- 1930b Seeds of some Grand Canyon flowers. Grand Canyon nat. notes, 4:84-89 (Oct.), illus.
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- 1930c Some Grand Canyon plants and their uses. Grand Canyon nat. notes, 4:72-77 (Sept.).

- 1930d A winter-blooming goosefoot. Grand Canyon nat. notes, 5:10-11 (Nov.), illus.
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- 1931b The rock-loving alum root. Grand Canyon nat. notes, 5:47 (Mar.), illus.
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- 1931c Where our cacti grow. Grand Canyon nat. notes, 5:71-72 (June), illus.
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Pearson, G. A.

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Tidestrom, Ivar

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Van Dyke, John C.

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INCLUDING ALSO MINERALOGY
PALEONTOLOGY, TOPOGRAPHY,
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- 1927b When insects were the size of birds. Grand Canyon nat.
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Fossil insect wings found in the Hermit shale of the Grand
Canyon.
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- 1930 Grand Canyon expedition. Discovery, 11:292 (Sept.).
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- 1903 Arizona desert. In his: Volcanic studies in many lands, p.
176, illus. London, John Murray.
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Lee, Willis T.

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1930e Ripples in the sands of time. Grand Canyon nat. notes, 4:91-93 (Oct.), illus.

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1930f Vanadinite in the Grand Canyon. Grand Canyon nat. notes, 4:52 (June 30).

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7-10 (Mar.), illus.

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Wetherill, Benjamin A.

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Hogg. Touring topics, 23:30-34, 54 (Feb.).

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1931 The cliff dwellers of Colorado. Discovery, 12:278-82 (Sept.), illus.

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- 1932 The Scelopori (swifts) of Mesa Verde. Mesa Verde notes, 3:8-9 (June), illus.

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- 1933 Snakes of Mesa Verde. Mesa Verde notes, 4:17-18 (July), illus.

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Wright, George M., and others

1933 [Fauna of the Mesa Verde National Park.] In their: Fauna
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58, 94-96. U. S. Natl. Park Serv., Contrib. of wild life
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Co-authors: Joseph S. Dixon and Ben H. Thompson.

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FLORA

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1932 The vegetation of the Mesa Verde National Park, Colorado. Boulder, Colo., Univ. Colo. Master's thesis.

Bethel, Ellsworth

1925 The conifers or "evergreens" of Colorado. Colo. mag., 2: [1]-23 (Jan.).

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1931 Evergreens of Mesa Verde. Mesa Verde notes, 2:12-16 (Sept.), illus.

Brandegge, T. S.

1876 [Flora of the Mesa Verde area.] U. S. Geol. and Geog. Surv. of the terrs., Bul., 2:228-29, 233-38, 240-43. Washington, Govt. print. off.

Colville, Frederick V.

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1931 The pentstemons. Mesa Verde notes, 2:4-6 (July), illus. Descriptions of the several varieties of pentstemon in the Mesa Verde National Park.

1932 More evergreens of Mesa Verde. Mesa Verde notes, 3:13-16 (June), illus.

Description of five evergreen plants of the Mesa Verde area; mountain lover, Oregon grape, yucca, mistletoe, and lesser mistletoe.

Harshberger, J. W.

1896 The purpose of ethnobotany. Am. antiquarian, 18:73-81 (Mar.).

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Discussion of the relation of primitive cultures to their botanical environments. The discussion is based in part upon the botanical collections made in the Mesa Verde area by the Wetherill brothers.

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GEOLOGY AND GEOGRAPHY

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A BIBLIOGRAPHY
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ROCKY MOUNTAIN NATIONAL PARK

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1894 A lady's life in the Rocky Mountains. 6th ed., London, Murray, 296 pp., illus.

Letters descriptive of the Rocky Mountains, including what is now the area of the national park. Historical material, descriptions of scenery, wild life, and travel conditions.

Blaurock, Carl

1923 A trip up the northeast face of Long's Peak. Trail and timberline, 63:1-5 (Dec.), illus.

Account of a mountaineering expedition in Rocky Mountain National Park.

Bowles, Samuel

1869 [A visit to Middle Park.] In his: A summer vacation in the parks and mountains of Colorado, pp. [65]-79. Springfield, Mass., S. Bowles.

Middle Park is partly within the present Rocky Mountain National Park.

Boyer, Warren E.

1923 [Description of Rocky Mountain National Park.] In his: Vanishing trails of romance, pp. 87-90. Denver, Colo., Great West Pub.

1926 Motor-lassoing the gabled Rockies of Colorado. Sunset, 56: 20-21, 62 (Mar.), illus.

Includes a note on the spectacular scenic motor highway in Rocky Mountain National Park.

Brady, F. Howard

1935 Our lakes. Rocky Mountain nat. notes, 8:72-74 (Oct.), illus.

Refers to the lakes of Rocky Mountain National Park.

Britt, Albert

1920 Colorado discovered. III. The tenderfeet climb Long's Peak and then give their attention to the trout of Bear Lake. Outing, 76:202-05, 243-44 (July-Aug.), illus.

Third of a series of articles. Accounts of a mountaineering expedition and a fishing trip in Rocky Mountain National Park.

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Brown, Ralph H.

1929 Colorado's mountain passes. Colo. mag., 6:227-37 (Nov.),
illus., map.

Includes descriptions of some passes of the Rocky Mountain
National Park region.

1930 Mountain communities of the Boulder region. Jour. of geog.,
29:271-87 (Oct.), illus.

Some of the country described lies in the Front Range near
the southern end of Rocky Mountain National Park.

Buel, James W.

1894 [The Rocky Mountains.] In his: America's wonderlands, pp.
17-40, illus. Vancouver, B. C., J. M. MacGregor.

Good description of the present Rocky Mountain National Park
region and excellent illustrations.

Burhans, Harry M.

1920 Rocky Mountain National Park. Mid-Pac. mag., 19:427-31
(May), illus.

General description.

Carhart, Arthur

1932 [Rocky Mountain National Park.] In his: Colorado, pp. 30-
31, 79-85. New York, Coward-McCann.

General description.

Chapin, Frederick H.

1887 The first ascent of a glacier in Colorado. Appalachia, 5:
1-12 (Dec.), illus.

Account of a trip to a snow field on Mummy Mountain, Rocky
Mountain National Park. The snow field was named Hallett Glacier.

1888 The ascent of Long's Peak. Appalachia, 5:109-21 (June),
illus.

1889 Mountaineering in Colorado; the peaks about Estes Park.
Boston, Appalachian Mountain Club, 168 pp., illus.

Detailed descriptions of the mountain peaks around Estes
Park, illustrated with photographs taken on various mountaineering
expeditions.

*Chapman, Arthur

1917 The lure of Rocky Mountain National Park. Travel, 29:22-
26 (Ap.).

1917 Rocky Mountain National Park in winter. Outers' book--
Recreation, 34:423-28 (Dec.).

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1920 Enos A. Mills, nature guide. Country life, 38:61-63 (May),
illus.

Biographical sketch of Mr. Mills, whose efforts were instrumental in the establishment of Rocky Mountain National Park.

Chittenden, Hiram M.

1935 [Discovery of Long's Peak by Major Stephen Long in 1820.]
In his: The American fur trade of the far west, 2:572.
New York, Press of the Pioneer, Inc.

Clampitt, John W.

1888 [The Estes Park region.] In his: Echoes from the Rocky
Mountains, pp. 174-86, illus. Chicago, Natl. Book Concern.

Clatworthy, Fred P.

1928 Photographing the marvels of the west in colors. Natl.
geog. mag., 53:694-719 (June), illus.
Brief description of photographic work in the southwest with
numerous fine photographs, some of which reproduce scenes in Rocky
Mountain National Park.

Coffin, Ted A.

1928 Trails of Wild Basin. Rocky Mountain nat. notes, 1:2-3
(July).

Description of a scenic area in the southeastern corner of
Rocky Mountain National Park.

[Colvin, Verplanck]

1872 The dome of the continent. Harper's new mo. mag., 46:20-
36 (Dec.), illus.

General description of the high mountain region in and about
the present Rocky Mountain National Park.

Cope, Henry F.

1905 A nation's playground. World today, 8:631-39 (June), illus.
General description of attractions in the Rocky Mountains,
with particular reference to the region of the present national park.

Daniels, Mark

1916 Rocky Mountain National Park. Am. forestry, 22:724-30
(Dec.), illus.

General description and notes on administrative problems.

*Davidson, Elmer

1919 Uncle Sam's Rocky Mountain playground. World traveler, 10:
17-19 (Aug.).

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De Bary, Richard

- 1908 [The Rocky Mountain region of Colorado.] In his: The land of promise, pp. 100-02. New York, Longmans, Green.
Brief description of the present park region.

*Dickinson, Anna E.

- 1879 Ragged register (of people, places, and opinions). New York, Harper, 286 pp.

Driggs, Howard R., joint author. See: Jackson, William H., 1929.

Faris, John T.

- 1920 [Rocky Mountain National Park.] In his: Seeing the far west, pp. 46-48. Phila., J. B. Lippincott co.
Descriptive and historical notes.

- 1930 In and about Rocky Mountain National Park. In his: Roaming the Rockies, pp. 228-46, illus. New York, Farrar and Rinehart.

Description of points of interest on a tour of the park.

Historical notes on the region.

- 1934 [Rocky Mountain National Park.] In his: Roaming American playgrounds, pp. 129-31. New York, Farrar and Rinehart.
Description of scenery on the road to the park from Boulder, Colorado.

Fast, Alger J., and others

- 1932 Top of the world; Rocky Mountain National Park. In their: Scout naturalists in the Rocky Mountains, pp. 150-60, illus. New York, Brewer, Warren, and Putnam.

Description of the park and account of the experiences of three boy scouts under the leadership of Ansel F. Hall of the National Park Service. Co-authors: Boynton S. Kaiser and Donald G. Kelley.

Graves, Henry S.

- 1919 Outdoor life in the Colorado National Forest. U. S. Dept. Agric., Circ. 34, 19 pp., illus., map. Washington, Govt. print. off.

Guide pamphlet giving information on outstanding scenic attractions, facilities for tourists, roads and trails, and animal life of Colorado National Forest and Rocky Mountain National Park.

Harding, Earl

- 1904 Climbing Long's Peak. Outing, 44:461-68 (July), illus.
Accounts of several ascents of the peak, beginning with the first by Major John W. Powell in 1869.

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[Harrington, Charles]

1878 [The Estes Park and Long's Peak region.] In his: Summer-
ing in Colorado, pp. [39]-46, [77]-84, illus. Denver,
Colo., Richards and co.

General description of the present Rocky Mountain National
Park region.

*Hart, John L. J.

1931 Fourteen thousand feet. 2d ed., Denver, Colo., Colorado
Mountain Club, 71 pp.

Hawthorne, Hildegard, and Mills, Esther B.

1935 Enos Mills of the Rockies. New York, Houghton Mifflin,
260 pp., illus.

Biography of a pioneer of the Rocky Mountain National Park
region. Mr. Mills was instrumental in the establishment of the
park and spent many years in Estes Park. He was author of many
books on the scenery, wild life, and geology of the park region.

Hayden, Ferdinand V.

1876 Our great west, and the scenery of our natural parks.
Am. Geog. Soc., Jour., 6:[196]-211.

Includes a general description of the present Rocky Moun-
tain National Park region.

*Hedden, H. G.

1919 Long's Peak to Pike's Peak by auto. Colo. highways bul.,
2:10 (Mar.).

Hodges, Katherine

1886 Historical Colorado. Twenty-eight years of progress.
Mag. Am. hist., 15:433-43 (May), illus.

Includes historical notes on the Rocky Mountain National
Park region.

Howell, Lindsay

1917 Two miles high on high gear. Sunset, 39:74, 76, 78, 80-
81 (Aug.), illus.

Description of the valleys and surrounding mountains of
Estes Park and other places on the continental divide.

Jackson, William H.

1926 Photographing the Colorado Rockies fifty years ago. Colo.
mag., 3:11-22 (Mar.), illus.

Account of photographic work in the area now included in
Rocky Mountain National Park; and in districts to the south.

Jackson, William H., and Driggs, Howard R.

1929 Among the Colorado Rockies. In their: The pioneer photo-

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grapher, pp. 142-63, illus. Yonkers-on-Hudson, N. Y.,
World Book co.

Includes notes on camera work in the present park area.

*James, Edwin, comp.

1823 Account of an expedition from Pittsburgh to the Rocky Moun-
tains, performed in the years 1819 and '20, by order of the
Hon. J. C. Calhoun, Sec'y of War: under the command of Major
Stephen H. Long. Phila., H. C. Carey and I. Lea.

Jeffers, LeRoy

1922 A glimpse of the Rocky Mountain National Park. In his: The
call of the mountains, pp. 87-95, illus. New York, Dodd,
Mead.

General description.

Johnson, Clifton

1922 Rocky Mountain National Park. In his: What to see in Amer-
ica, pp. 408-15, illus. New York, Macmillan.

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Joslin, Theodore G.

1931 Roads that rim the Rockies. World's work, 60:[72]-75
(June), illus.

Description of the spectacular scenic Trail Ridge Highway
which links the eastern and western entrances to Rocky Mountain Na-
tional Park.

Kaiser, Boynton S., co-author. See: Fast, Alger J., 1932.

Kelley, Donald G., co-author. See: Fast, Alger J., 1932.

Kerbey, McFall

1932 Colorado; a barrier that became a goal. Natl. geog. mag.,
62:[1]-63 (July), illus., map.

Includes a description of Rocky Mountain National Park.

*Lamb, E. J.

n.d. Miscellaneous meditations. Pub. Press Room and Bind. co.,
259 pp.

*1906 Memories of the past and thoughts of the future. United
Brethren Pub. House.

*Lee, Willis T.

1918 Rocky Mountain National Park. Pleasureland, 23:5 (May).

*March, (Mrs.) D. J.

1917 Winter at Estes Park. Pleasureland, 22:11 (Dec.).

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Mills, Enos A.

1910 The proposed Estes National Park. Sierra Club, Bul., 7: 234-36 (June), illus.

1910a Wild life on the Rockies. Boston, Houghton Mifflin, 263 pp., illus.

Record of experiences in the wilds, chiefly in the region now included in Rocky Mountain National Park.

1911 The spell of the Rockies. Boston, Houghton Mifflin, 356 pp., illus.

Eighteen separate stories of Rocky Mountain adventure and exploration, mostly in the region of the present Rocky Mountain National Park. Most of the stories were first published in magazines.

1912 Beautiful America. The Rocky Mountain region. Country life, 22:25-30, 46 (Aug.), illus.

Includes descriptive notes on the scenery of the region now included in Rocky Mountain National Park.

1912a A park for the nation. The proposed site of the Estes national playground and game preserve. Collier's, 49:14 (June 8), illus.

Description of the region which later became Rocky Mountain National Park.

1915 The Rocky Mountain wonderland. New York, Houghton Mifflin, 363 pp., illus., map.

A group of articles on the fauna, flora, and scenery of the Rocky Mountain National Park and the experiences of the author in the region.

1917 Rocky Mountain National Park. In his: Your national parks, pp. 175-[89], illus. New York, Houghton Mifflin.

General description of the scenery, animals, plants, and tourist facilities.

1917a The story of Estes Park. 4th ed., Long's Peak, Estes Park, Colo., the author, 130 pp., illus.

Description of the Estes Park region and its wild life. Notes on the early settlers and visitors; Isabella Bird and the Earl of Dunraven.

1920 The adventures of a nature guide. Garden City, N. Y., Doubleday, Page and co., 271 pp., illus.

Experiences while mountaineering and exploring in the Rocky Mountain National Park region. Includes considerable material on the fauna and flora of the park.

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Mills, Enos A.

1924 The Rocky Mountain National Park. Garden City, N. Y.,
Doubleday, Page and co., 239 pp., illus., apps.

Description and history of the park region with material
on the fauna, flora, and educational facilities. Includes appen-
dices on litigation concerning the park and a biographical sketch
of the author.

Mills, Esther B., joint author. See: Hawthorne, Hildegard, 1935.

Mills, Joe

1926 A mountain boyhood. New York, Sears, 286 pp., illus.

The author's boyhood was spent in Estes Park. He describes
his experiences and the scenery, fauna, and flora of the region.

Mitchell, Guy E.

1917 Rocky Mountain National Park. Am. rev. of revs., 48:51-55
(July), illus.

Description of the scenery and notes on the fauna of the
park.

Moomaw, Jack C.

1932 Lost mines of Wild Basin. Rocky Mountain nat. notes, 5:
127-29 (Dec.).

Notes on legendary discoveries of gold in a part of Rocky
Mountain National Park.

*Osborne, A. B.

1922 Where the Rockies reign supreme. Illus. world, 37:876-84
(Aug.).

Parkman, Francis

1880 [Long's Peak.] In his: The Oregon Trail, sketches of prairie
and Rocky Mountain life, pp. 293-95. Boston, Little, Brown.
Description of the peak and the surrounding country.

Parsons, Eugene

1911 [Estes Park, Long's Peak and the Front Range of the Rockies.]
In his: A guidebook to Colorado, pp. 21, 83, 101-02, 199-201,
237, 347. Boston, Little, Brown.

Brief descriptive notes on these features of the present
Rocky Mountain National Park.

Quinn, Vernon

1923 [Rocky Mountain National Park.] In his: Beautiful America,
pp. 260-62. New York, F. A. Stokes co.
Brief descriptions of Long's Peak, Loch Vale, and Fern Lake.

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[Ramaley, Francis]

- 1926 Estes Park and Rocky Mountain National Park. In: Naturalist's guide to the Americas (Victor E. Shelford, ed.), p. 527. Baltimore, Williams and Wilkins.
Brief description.

*Reed, Sally F.

- 1917 Original Estes Park. Pleasureland, 22:6 (Oct.).

Reeks, Esther E.

- 1918 Lakes of the Rocky Mountain National Park. Bellman, 25: 656-58 (Dec.), illus.

Reik, Henry O.

- c1920 Rocky Mountain National Park. In his: A tour of America's national parks, pp. 21-33, illus. New York, Dutton.
General description and information for tourists.

Rensch, H. E.

- 1935 Historical background for the Rocky Mountain National Park. Berkeley, Calif., U. S. Dept. Int., Natl. Park Serv., 45 pp., bibliog.

"Compilation from published documents of some of "the more interesting phases of the events occurring in the region." The bibliography is extensive.

Rideing, W. H.

- 1874 The Rocky Mountains, In: Picturesque America (William Cullen Bryant, ed.), 2:[483]-502, illus. New York, D. Appleton.

General description of the Rocky Mountains, containing material on the region now included in Rocky Mountain National Park. Illustrated by engravings of paintings by Thomas Moran.

Rogers, James G.

- 1932 Colorado's plains and mountains. Nature mag., 19:308-11, 330-31 (May), illus.

Includes brief descriptive notes on part of the Rocky Mountain National Park.

Rolfe, Mary A.

- 1928 Rocky Mountain National Park. In her: Our national parks, Book I:143-220, illus. New York, Sanborn.
Description of the park for juvenile readers.

Shannon, William J., and Shannon, Hannah M.

- 1936 [Rocky Mountain National Park.] In their: Camera trails through the southwest, pp. 102-10. Nutley, N. J., Moorfield and Shannon.

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General description.

Skinner, Curtis K.

1928 A life-saving mountain memorial. Sunset, 60:33, 54 (May),
illus.

Description of the granite and cement shelter house built by
F. O. Vaile of Denver on Long's Peak in memory of his daughter who
died there in a blizzard.

1929 Fire, the enemy of our national parks and how it is control-
led in the Rocky Mountain National Park. Am. forests, 35:
519-20 (Aug.), illus.

Smiley, Jerome C.

1913 [Long's Peak.] In: Semi-centennial history of the State of
Colorado, 1:96-102, 111-12, illus. New York, Lewis Pub. co.
Account of the expedition under Major Stephen Long in 1820,
which discovered the peak.

Strahorn, Carrie A.

1911 [Middle Park and Estes Park.] In her: Fifteen thousand
miles by stage, pp. 65-74, 203-14. New York, Putnam.
Description of the scenery and topography.

*Sullivan, Howard

1917 Rockies' charm calls tourists. Motor age, 33:26-30 (Oct.4).

Taylor, Frank J., joint author. See: Albright, Horace M., 1928.

Thwaites, Reuben G.

1904 [Discovery of Long's Peak.] In his: A brief history of
Rocky Mountain exploration, pp. 212-14. New York, Appleton.
Notes on Major Stephen Long's expedition of 1820, which dis-
covered the peak.

Toll, Roger W., comp.

1919 Mountaineering in Rocky Mountain National Park. U. S.
Dept. Int., Natl. Park Serv., 106 pp., illus., bibliog.
Washington, Govt. print. off.
Suggestions and general information for prospective moun-
taineers in the park. Description of the many peaks and the tour-
ist accommodations.

1922 The heart of the Rockies. Am. forestry, 28:413-14 (July),
illus.

General description of the features of Rocky Mountain Na-
tional Park.

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Tolson, Hillory A., comp.
1933 [Legislation relating to Rocky Mountain National Park.] In:
Laws relating to the National Park Service, the national
parks and monuments, pp. 152-68. U. S. Dept. Int., Natl.
Park Serv. Washington, Govt. print. off.
Includes both federal and state legislation. A supplement
covers legislation up to July 1, 1936.

Trager, Martelle W.
1939 Rocky Mountain National Park. In her: National parks of
the northwest, pp. 176-99, illus., map. New York, Dodd,
Mead.
General description.

United States. Department of Interior
1915- [Administrative reports on Rocky Mountain National Park.]
1938 U. S. Dept. Int., Ann. repts., 1915-1938. Washington,
Govt. print. off.

United States. Geographic Board
1934 Rocky Mountain National Park. U. S. Geog. Bd., Decisions,
27, 10 pp. Washington, Govt. print. off.
Pamphlet listing names of localities in Rocky Mountain Na-
tional Park as decided upon by the board.

*United States. Geological Survey
1939 Motorists guide for Rocky Mountain National Park. U. S.
Geol. Surv. Washington, Govt. print. off.

United States. National Park Service
1938 Rocky Mountain National Park, Colorado. U. S. Dept. Int.,
Natl. Park Serv., 37 pp., illus., map, bibliog. Washington,
Govt. print. off.
Compendium of information for the general public. One of
the descriptive pamphlets on individual parks and monuments publish-
ed from 1916-19 as a General Information series; from 1920-27 as a
Rules and Regulations series; from 1928-33 as a Circulars series;
from 1934 to date without a series title.

*United States. Railroad Administration
n.d. Rocky Mountain National Park. Chicago, Bur. of Serv., Natl.
Parks and Monuments.

Vivian, A. Pendarves
1879 [A hunting trip in the Rocky Mountains.] In his: Wanderings
in the western land, pp. [126]-51, illus., map. London,
S. Low, Marston, Searle and Rivington.
Refers to the region of the present Rocky Mountain National
Park.

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Voth, Hazel H., and others

1938 A general index to Rocky Mountain Nature Notes, 1928-1936.
Berkeley, Calif., U. S. Dept. Int., Natl. Park Serv., 27
pp.

Also bound in volume containing indices to the Nature Note
publications of other parks, entitled "A general index to the Nature
Notes published in various national parks, 1920-1936."

1938 Rocky Mountain National Park. In: Guide to national parks
and monuments west of the Mississippi River, pp. 46-47.
Berkeley, Calif., U. S. Dept. Int., Natl. Park Serv.
Specifies location, area, and date of establishment. Brief-
ly describes the principal features. Historical notes.

*Watrous, R. S.

n.d. History of Larimer County.

*White, William A.

1917 Early visitors to Estes Park. Pleasureland, 22:6 (Nov.).

Yard, Robert S.

1917 The first ditch-digger. In his: The top of the continent,
pp. 16-43, illus. New York, Scribner's.

Account of a visit to Rocky Mountain National Park and a
description of its features.

1919 [Rocky Mountain National Park.] In his: The book of the na-
tional parks, pp. 93-117, illus., maps. New York, Scrib-
ner's.

General description.

1931 The Rocky Mountain National Park. In his: The national parks
portfolio, pp. 171-92, illus. 6th ed., U. S. Dept. Int.,
Natl. Park Serv. Washington, Govt. print. off.
General description and many excellent photographs of scen-
ery in the park.

1934 Rocky Mountain and Mesa Verde national parks. In: Fictur-
esque America (J. F. Kane, ed.), pp. [108]-24, illus., map.
Rev. ed., New York, Union Lib. Assn.
General description of the outstanding features of these
parks.

[Yard, Robert S.]

1936 The Rocky Mountain National Park, Colorado. In his: Glimp-
ses of our national parks (Isabelle F. Story, ed.), pp. 46-
51, illus. Rev. ed., U. S. Dept. Int., Natl. Park Serv.
Washington, Govt. print. off.

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Yeager, Dorr G.

1932 The park of the Rockies. Nature mag., 19:305-07 (May),
illus.

1932a Place names of Rocky Mountain National Park. Rocky Moun-
tain nat. notes, 5:9-10 (Feb.).

Historical notes explaining the names of a score of places
in the park.

1932b The Rocky Mountain Nature Association. Rocky Mountain
nat. notes, 5:61-62 (July).

Notes on the Association and its purposes.

1935 Bob Flane, Rocky Mountain ranger. New York, Dodd, Mead,
278 pp., illus.

Fictionized account of the activities of the rangers who
administer Rocky Mountain National Park. Includes abundant de-
scriptive material on the physical features of the park.

1935a A new museum. Rocky Mountain nat. notes, 8:22-25 (Ap.).

Detailed description of the recently opened Moraine Park
Museum and its exhibits.

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FAUNA

(Birds, Fishes, Insects, Mammals)

BIRDS

Anonymous

- 1933 Field notes. Rocky Mountain nat. notes, 6:68 (June).
Refers to the first appearance of a Grinnell's water thrush
in the Rocky Mountain National Park region.
- 1933 New record for the park. Rocky Mountain nat. notes, 6:63
(June).
Records first appearance of the American avocet in the park.
- 1934 The marsh hawk. Rocky Mountain nat. notes, 7:223 (Oct.).
Notes on a bird which migrates over the park in large num-
bers each autumn.

[Allen, Charles N.]

- 1888 Bird music: songs of the western meadow-lark. Century
mag., 36:908-11 (Oct.), illus.
Notes on the habits and songs of this bird, which is common
in the park.

Boyer, Warren E.

- 1928 The thunder bird. Sunset, 60:19 (June), illus.
Description of the ptarmigans of the Long's Peak region
and an Indian legend concerning them.

*Gregg, Raymond

- n.d. Birds of Rocky Mountain National Park. Rocky Mountain
Nat. Assn., 80 pp.

Henderson, Junius

- 1903 Preliminary list of birds of Boulder County, Colorado.
Univ. Colo. studies, 1:[233]-37 (Ap.).
List of 160 species of the region adjacent to the present
park.

- 1909 An annotated list of the birds of Boulder County, Colorado.
Univ. Colo. studies, 6:219-42 (Ap.), bibliog.

Kearns, William E.

- 1933 The chickadee. Rocky Mountain nat. notes, 6:78, 81 (July).
Appearance and habits of a common park bird.

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- *Keyser, Leander S.
1902 Birds of the Rockies. Chicago, McClurg, 355 pp., illus.
- *Kleinschnitz, Fred C..
1937 Field manual of birds, Rocky Mountain National Park. 60 pp.
- Mills, Enos A.
1931 Bird memories of the Rockies. Boston, Houghton Mifflin, 263 pp., illus.
Group of articles on bird observations in the Rocky Mountains, mainly in the Rocky Mountain National Park region.
- Obee, Donald J.
1936 Birds of the [Rocky Mountain National Park] region and England. Rocky Mountain nat. notes, 9:5-6 (Jan.).
- Shirling, A. E.
1929 New bird records for Rocky Mountain National Park. Rocky Mountain nat. notes, 2:3 (July 15), illus.
Four new species observed near Camp Olympus.
- *United States. National Park Service
1938 Check list of birds of Rocky Mountain National Park. U. S. Natl. Park Serv., 30 pp.
- Way, L. C.
1918 Birds of the Rocky Mountain National Park. U. S. Natl. Park Serv., Rept., 1918:181-85. Washington, Govt. print. off.
List of 114 species and their habitats.
- Yeager, Dorr G.
1932 Our more common hawks. Rocky Mountain nat. notes, 5:87 (Sept.).
Brief notes on the hawks of the park.
- 1932 Rocky Mountain owls. Rocky Mountain nat. notes, 5:103 (Oct.).

FISHES

- Barrows, Jack
1933 Fish of Rocky Mountain National Park. Rocky Mountain nat. notes, 6:52-53 (May).

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- Ellis, Max M.
1914 Fishes of Colorado. Univ. Colo. studies, 11:1-136 (Mar.),
illus., maps.
Technical discussion of fish species of Colorado. Includes
description of species taken from St. Vrain's Creek.
- *Green, William S.
n.d. Colorado trout. Estes Park, Colo., Rocky Mountain nat.
Assn.
- Potts, Merlin K.
1936 The game fishes of Rocky Mountain National Park. Rocky
Mountain nat., notes, 9:46-47 (Dec.), illus.

INSECTS

- Anonymous
1931 The butterfly checklist. Rocky Mountain nat. notes, 4:18-
20 (Aug.).
List of species collected in Rocky Mountain National Park.
- Candell, Andrew N.
1903 Notes on orthoptera from Colorado, New Mexico, Arizona, and
Texas, with descriptions of new species. U. S. Natl. Mus.,
Proc., 26:775-810, illus. Washington, Govt. print. off.
Some of the specimens discussed were collected in the region
which now includes Rocky Mountain National Park.
- McLaughlin, John S.
1932 The Black Hills beetle. Rocky Mountain nat. notes, 5:52-53
(June).
Notes on an insect which infests and destroys ponderosa pine
trees in Rocky Mountain National Park.
- Robbins, Wilfred W.
1910 An introduction to the study of ants in northwestern Colo-
rado. Univ. Colo. studies, 7:215-22 (June), illus., bib-
liog.
List of species from the Boulder, Colorado area. Many
from the area of the present Rocky Mountain National Park.
- Sperry, John L., and Sperry, Grace H.
1930 Butterflies. Rocky Mountain nat. notes, 3:13-14 (Aug.).
Notes on two species of high elevations in the park.

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MAMMALS

Anonymous

1931 The picketpin. Rocky Mountain nat. notes, 4:16 (July).
Notes on a ground squirrel species which has inhabited
the Rocky Mountain National Park region since about 1911.

1935 The poison menace. Rocky Mountain nat. notes, 8:33
(Ap.).
Discussion of the serious increase in the number of picket-
pins in the park and of measures to control them.

Bailey, Vernon

1907 [Wolves in Estes Park.] U. S. Dept. Agric., Forest Serv.
bul. 72:11. Washington, Govt. print. off.

Boos, Margaret F.

1929 Have we the longest beaver dam in the national parks?
Rocky Mountain nat. notes, 2:1-3 (Aug.1), illus.
Description of unusually long beaver dams in the Moraine
Park area of Rocky Mountain National Park.

Dixon, Joseph S., co-author. See: Wright, George M., 1933.

Finn, Calvin

1930 Alpine hay makers (conies). Rocky Mountain nat. notes,
3:26 (Sept.).
Description of a small rabbit-like animal which lives among
the rocks above timberline in the park.

1930 Summer residents of the mountain tops. Rocky Mountain nat.
notes, 3:23 (Sept.).
Notes on the deer and elk migrations in the park.

Fryxell, Fritiof M.

1928 A former range of bison in the Rocky Mountains. Jour. mam.,
9:129-39 (May).
Includes notes on the discovery of bison remains in the
Rocky Mountain and Yellowstone national parks.

Grinnell, George B.

1928 Mountain sheep. Jour. mam., 9:1-9 (Feb.).
Includes a note on mountain sheep in Rocky Mountain National
Park.

Howe, Mary

1930 Porcupines in the Wild Basin country. Rocky Mountain nat.
notes, 3:[21]-22 (Sept.).

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The Wild Basin is in Rocky Mountain National Park.

Joslin, Theodore G.

- 1930 Make Rocky Mountain [National Park] "alive" again. Rocky Mountain nat. notes, 3:11-12 (Aug.15).
Discussion of the increasing tameness of the animals of the park.

*McLaughlin, John S.

- 1932 Report on conditions of portions of elk and deer winter range in Rocky Mountain National Park. Rocky Mountain Natl. Park, Colo.

- 1933 Elk migrations [in Rocky Mountain National Park.]. Rocky Mountain nat. notes, 6:22-23 (Feb.).
Refers to seasonal movements.

Mills, Enos A.

- 1910 Wild life on the Rockies. Boston, Houghton Mifflin, 263 pp., illus.
Includes considerable material on the animals of the park.

- 1911 The spell of the Rockies. Boston, Houghton Mifflin, 356 pp., illus.
Includes considerable material on the animals of the park.

- 1913 [Observations on the beavers of Rocky Mountain National Park.]
In his: In beaver world, pp. 83-107, 113-19, 128-32, 139-93, illus. New York, Houghton Mifflin.

- 1915 The Rocky Mountain wonderland. New York, Houghton Mifflin, 363 pp., illus., map.
Includes considerable material on the animals of the park.

- *1919 Fighting a food shortage. Munsey's mag., 66:340-42 (Mar.).

- 1919a The grizzly; our greatest wild animal. Boston, Houghton Mifflin, 288 pp., illus.
Popular discussion, in a series of essays, of the appearance, habits, history, range, and present status of the grizzly bear, with particular reference to the grizzlies of Rocky Mountain National Park, where most of the author's observations were made.

- 1920 The adventures of a nature guide. Garden City, N. Y., Doubleday, Page and co., 271 pp., illus.
Includes considerable material on the animals of the park.

- 1921 Waiting in the wilderness. Garden City, N. Y., Doubleday,

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Page and co., 241 pp., illus.

Includes considerable material on the animals of the park.

1922 Watched by wild animals. Garden City, N. Y., Doubleday,
Page and co., 243 pp., illus.

Experiences with, and descriptions of, the animals of the
western mountain regions. Particular reference to Rocky Mountain
National Park.

1923 Wild animal homesteads. Garden City, N. Y., Doubleday,
Page and co., 259 pp., illus.

Experiences with, and descriptions of, many animal species
of the Rocky Mountain National Park region.

1924 The Rocky Mountain National Park. Garden City, N. Y.,
Doubleday, Page and co., 239 pp., illus., maps.

Guidebook to the park, containing some material on the an-
imals of the region.

Mills, Joe

1926 A mountain boyhood. New York, Sears, 286 pp., illus.

The author's boyhood was spent in Estes Park. The account
of his experiences contains material on the animals of the region.

Mitchell, Guy E.

1917 Rocky Mountain National Park. Am. rev. of revs., 48:51-55
(July), illus.

Notes on the animals and scenery of the park.

Obee, Donald J.

1936 Concerning Say's ground squirrel. Rocky Mountain nat.
notes, 9:14-15 (Jan.).

Notes on a species common in the park.

Potts, Merlin K.

1935 Albert's squirrel. Rocky Mountain nat. notes, 8:36-37
(Ap.), illus.

Notes on a species common in the park.

Quaintance, Charles W.

1934 Bighorn sheep--a wildlife problem. Rocky Mountain nat.
notes, 7:212-14 (Oct.).

Discussion of the decrease in the number of these animals
in the park.

Rockwell, Robert E.

1916 [The Abert squirrel of Rocky Mountain National Park.] In
his: The squirrels, chipmunks, and gophers of Colorado,

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pp. 6, 8. Denver, Colo., Mountain Club.

Smith, Baxter L.

1935 The zoology of Rocky Mountain National Park. Berkeley, Calif., U. S. Dept. Int., Natl. Park Serv., [38] pp., bibliog.

Enumerates, and describes the habitats of, some of the more common mammals of the park. The bibliography is extensive.

Thompson, Ben H., co-author. See: Wright, George M., 1933, 1935.

Warren, Edward R.

1906 The mammals of Colorado. Colo. Coll. pubs., (Gen. ser., 19; Sci. ser., 46) 11:225-74 (Jan.), bibliog.

Includes notes on prairie dog, woodchuck, pocket gopher, vole, and skunk species of the present Rocky Mountain National Park region.

1926 Notes on the beaver colonies in the Long's Peak region of Estes Park, Colorado. Roosevelt wild life annals, 1:[193]-234, illus., maps, bibliog. (Syracuse Univ., Bul., vol. 24, no. 6).

The author is an authority on beavers. Many good photographic illustrations and excellent maps.

1927 The beaver. Baltimore, Williams and Wilkins, 177 pp., illus., bibliog.

Study of the habits and characteristics of beavers. Many of the observations were made in Rocky Mountain National Park.

Wright, George M., and others

1933 [Fauna of Rocky Mountain National Park.] In their: Fauna of the national parks of the United States; a preliminary survey of faunal relations in the national parks, pp. 40, 45, 47, 107-14. U. S. Natl. Park Serv., Contrib. of wild life surv., Fauna ser., 1. Washington, Govt. print. off.

Co-authors: Joseph S. Dixon and Ben H. Thompson.

Wright, George M., and Thompson, Ben H.

1933 [Fauna of Rocky Mountain National Park.] In their: Fauna of the national parks of the United States; wildlife management in the national parks, pp. 67, 70, 72-73, 112, 117, 124. U. S. Natl. Park Serv., Contrib. of wild life div., Fauna ser., 2. Washington, Govt. print. off.

Yeager, Dorr G.

1932 The American elk. Rocky Mountain nat. notes, 5:58 (June).
Notes on the largest mammal inhabiting Rocky Mountain National Park.

ROCKY MOUNTAIN NATIONAL PARK

- 1932a The animals of Rocky Mountain National Park. Rocky Mountain Nat. Assn., Pub. 1, 57 pp. (July), illus.
Description of about 25 animal species of the park.
- 1932b Check list of mammals [in and around Rocky Mountain National Park]. Rocky Mountain nat. notes, 5:1-2 (Jan.), illus.
- 1935 Scarface, the story of a grizzly. Phila., Penn. Pub. co., 254 pp., illus.
"Story of any grizzly which might have lived during the end of that sanguinary campaign of destruction waged against the species by cattlemen and hunters throughout the west." It is laid in the region of the present Rocky Mountain National Park.
- Young, Robert T.
1908 Notes on the distribution of Colorado mammals, with a description of a new species of bat (*Eptesicus pallidus*) from Boulder. Acad. Nat. Sci. of Phila., Proc., 60:403-09 (July).
Includes notes on two field mouse species of the Long's Peak and Estes Park regions.

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FLORA

Anonymous

- 1919 Botanical field-work in the southwestern United States. Smithsn. misc. colls., 70:50-61, illus.
Includes an account of a botanical expedition to Long's Peak in Rocky Mountain National Park. Brief notes on the flora observed.

Ashton, Ruth

- 1930 The royal robes of summer. Rocky Mountain nat. notes, 3: 16 (Aug.).
Notes on some of the summer-blooming flowers of Rocky Mountain National Park.

- 1931 Consider the lilies. Rocky Mountain nat. notes, 4:15 (July), illus.
Notes on the redwood lily, a flower nearly extinct in Rocky Mountain National Park.

- 1933 Plants of Rocky Mountain National Park. U. S. Dept. Int., Natl. Park Serv., 157 pp., illus. Washington, Govt. print. off.
List of about 700 plant species of the park region. Description of species and their habitats, with a key to identification of species.

Bethel, Ellsworth

- 1925 The conifers or "evergreens" of Colorado. Colo. mag., 2: [1]-23 (Jan.).
Includes notes on the coniferous forests of Rocky Mountain National Park.

Betts, Norman D. W.

- 1916 Notes on forest cover and snow retention on the east side of the Front Range in Colorado. Soc. Am. Foresters, Proc., 11:27-32 (Jan.), illus.
The Rocky Mountain National Park is in the Front Range of the Rocky Mountains.

Boos, Margaret F.

- 1928 Pioneer days. Rocky Mountain nat. notes, 1:1-2 (Aug.18).
Includes a note on the changes in forest cover in the park region to be seen in photographs taken in 1873 and in 1928.

Butler, Albert E.

- 1919 Notes of a collector in the Colorado Rockies. Nat. hist., 19:170-81 (Feb.), illus.
Descriptions of Specimen Mountain and Long's Peak with notes

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on the trees and flowers of the Rocky Mountain National Park region.

*Clements, Edith S.

n.d. Flowers of mountain and plain.

Clements, Frederic E.

1910 The life history of lodgepole pine burn forests. U. S. Dept. Agric., Forest Serv. bul. 79, 56 pp., illus. Washington, Govt. print. off.

Discussion of the effect of fires on lodgepole pine growths in Estes Park, methods of reforestation, and the future development of lodgepole pine forests.

Clements, Frederic E., and Clements, Edith S.

1914 Rocky Mountain flowers; an illustrated guide for plant-lovers and plant-users. New York, H. W. Wilson, 392 pp., illus. Many colored illustrations.

Cooper, W. S.

1908 Alpine vegetation in the vicinity of Long's Peak, Colorado. Bot. gaz., 45:319-33 (May), illus.

Coulter, John M.

1909 New manual of botany of the central Rocky Mountains (vascular plants). New York, Am. Book co., 646 pp. New edition, revised by Professor Aven Nelson, of a manual first published in 1885. The Colorado Rocky Mountain region is "the center of the flora included in the manual."

*Ensign, Edgar T.

1889 Report on the forest conditions of the Rocky Mountains. U. S. Dept. Agric., Forestry Div. bul. 2:41-152, maps. Washington, Govt. print. off.

Holm, Theodore

1927 The vegetation of the alpine region of the Rocky Mountains in Colorado. Natl. Acad. Sci., Mens., 19, 45 pp., illus. (no. 3). Washington, Govt. print. off. List and description of specimens collected from 1896-1899. Many were from the present Rocky Mountain National Park region.

Kiener, Walter

1935 Unisexual limber pines. Sci., n.s., 82:193 (Aug.30). Notes on specimens found in Rocky Mountain National Park.

Longyear, Burton O.

1927 Trees and shrubs of the Rocky Mountain region; with keys and

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and descriptions for their identification. New York, Putnam, 244 pp., illus.

Non-technical field book with an index to both scientific and common names. Illustrated with colored plates and pen and ink drawings by the author.

McLaughlin, John S., joint author. See: Yeager, Dorr G., 1934.

MacMechen, Edgar C.

1931 A saga of timberline. Nature mag., 17:229-33 (Ap.), illus.

Notes on grotesquely shaped trees above timberline in Rocky Mountain National Park. Numerous good illustrations.

Mason, D. T.

1915 The life history of lodgepole pine in the Rocky Mountains.

U. S. Dept. Agric., Bul. 154, 35 pp., illus. Washington, Govt. print. off.

*Mills, Enos A., and Stone, W. G. M.

1905 Forest and exotic trees of Colorado. Denver, Colo.

Mills, Enos A.

1910 Wild life on the Rockies. Boston, Houghton Mifflin, 263 pp., illus.

Includes considerable material on the flora of the park.

1911 The spell of the Rockies. Boston, Houghton Mifflin, 256 pp., illus.

Includes considerable material on the flora of the park.

1915 The Rocky Mountain wonderland. New York, Houghton Mifflin, 363 pp., illus., map.

Includes considerable material on the flora of the park.

1920 The adventures of a nature guide. Garden City, N. Y., Doubleday, Page and co., 271 pp., illus.

Includes considerable material on the flora of the park.

1924 The Rocky Mountain National Park. Garden City, N. Y., Doubleday, Page and co., 239 pp., illus., apps.

Includes considerable material on the flora of the park.

Mills, Joe

1926 A mountain boyhood. New York, Sears, 286 pp., illus.

The author's boyhood was spent in Estes Park. The account of his experiences includes some material on the flora of the area.

Moomaw, Jack

1931 Mushrooms of the Rocky Mountain National Park. Rocky Moun-

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tain nat. notes, 4:28-30 (Sept.).

Partial list of the more common species and their characteristics.

*Nelson, Aven

1902 Analytical key to some of the common flowering plants of the Rocky Mountain region. New York, 94 pp.

Parry, C. C.

1862 Physiographical sketch of that portion of the Rocky Mountain Range, at the headwaters of South Clear Creek, and east end of Middle Park: with an enumeration of the plants collected in this district in the summer of 1861. Am. jour. sci. and arts, 2d ser., 33:231-43 (Mar.).
This portion of Middle Park is now included in Rocky Mountain National Park.

Preston, John C.

1936 Park evergreen trees a source of inspiration. Rocky Mountain nat. notes, 9:25-26 (July).
Lists species of evergreen found in each of the five life zones of the Rocky Mountain National Park region.

Ramaley, Francis

1907- The silva of Colorado. Univ. Colo. studies, 4:109-22 (Feb., 1907); 187-99 (Ap., 1907); 5:47-63 (Dec., 1907); 6:249-81 (Ap., 1909), illus., maps, bibliog.
Series of four articles discussing: 1. Trees of the pine family. 2. The poplars, aspens, and cottonwoods. 3. Wood plants of Boulder County. 4. Forest formations and forest trees. Many of the species described occur in Rocky Mountain National Park.

Radcliff, Harold

1929 A key to the grass tribes [of Rocky Mountain National Park]. Rocky Mountain nat. notes, 2:3-5 (Aug.1), illus.
Pen and ink drawings of nine grass tribes.

Obee, Donald J.

1935 A note on the flora along the Fern Lake Trail. Rocky Mountain nat. notes, 8:55-57 (July).

*Smoll, P. A.

1926 Evergreens of Rocky Mountain National Park. Estes Park, Colo., Trail Print. Shop, 38 pp., illus.

Stone, W. G. M., joint author. See: Mills, Enos A., 1905.

*Sudworth, George B.

1887 Forest flora of the Rocky Mountains. U. S. Dept. Agric.,

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Forestry Div. bul. 2:153-97. Washington, Govt. print. off.

*Sudworth, George B.

1915 The cypress and juniper trees of the Rocky Mountain region.
U. S. Dept. Agric., Bul. 207, 36 pp., illus., maps. Wash-
ington, Govt. print. off.

*1916 The spruce and balsam fir trees of the Rocky Mountain region.
U. S. Dept. Agric., Bul. 327, 43 pp., illus., maps. Wash-
ington, Govt. print. off.

*1917 The pine trees of the Rocky Mountain region. U.S. Dept.
Agric., Bul. 460, 46 pp., illus., maps. Washington, Govt.
print. off.

*1918 Miscellaneous conifers of the Rocky Mountain region. U.S.
Dept. Agric., Bul. 680, 44 pp., illus., maps. Washington,
Govt. print. off.

Thacher, (Mrs.) G. W.

1889 Alpine flowers of Colorado. Appalachia, 5:284-91 (May).
Account of a botanical excursion to Estes Park and Long's
Peak. Lists 22 alpine flower species observed.

*United States. National Park Service

1939 Flower chart. Estes Park, Colo., 2 pp.

Way, L. C.

1918 Plants of the Rocky Mountain National Park. U. S. Natl.
Park Serv., Rept., 1918:185-89. Washington, Govt. print.
off.
List of 360 species and their habitats.

Yeager, Dorr G., and McLaughlin, John S.

1934 Trees of Rocky Mountain National Park. Rocky Mountain nat.
notes, 7:135-45 (Ap.), illus.

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GEOLOGY

(Including also Geography, Meteorology, and Paleontology)

Anonymous

1916 The Rocky Mountain National Park. Special characteristic: readable records of glacial period. Am. Scenic and Hist. Preservn. Soc., 21st Ann. rept., 1916:663-67.

Beatty, M. E.

1936 Geologic impressions. Rocky Mountain nat. notes, 9:36-38 (July).

Discussion and comparison of the geology of Rocky Mountain and Yosemite national parks.

Bechler, Gustavus R.

1877 Geographical report on the Middle and South parks, Colorado, and adjacent country. U. S. Geol. and Geog. Surv. of the terrs., 9th Ann. rept., 1875, pt. II:371-440, illus., maps. Washington, Govt. print. off.

Detailed description of the region in which the present national park is located.

Boos, (Mrs.) Margaret F.

1923 The physiographic development of the Big Thompson River Valley in Colorado. Jour. of geol., 31:126-37 (Feb.-Mar.), illus.

The Big Thompson River rises in Rocky Mountain National Park and flows east.

1924 General features of pre-Cambrian structure along the Big Thompson River in Colorado. Jour. of geol., 32:49-63 (Feb.), illus.

1925 The bearing of some remarkable potholes on early Pleistocene glaciation of the Front Range, Colorado. Jour. of geol., 33:224-35 (Ap.-May), illus., maps.

1926 Contact metamorphism in the Big Thompson schist of north central Colorado. Am. jour. sci., 5th ser., 11:194-200 (Mar.), illus.

Technical discussion of a formation of the park region.

1928 Moraines of Taylor Glacier. Rocky Mountain nat. notes, 1:3 (Sept.15).

Taylor Glacier is in Rocky Mountain National Park.

1928a Pot-holes of the Estes-Rocky Mountain National Park region.

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Rocky Mountain nat. notes, 1:4-6 (July 16), illus.

Boos, (Mrs.) Margaret F.

1928b Rocks of Rocky Mountain National Park. Rocky Mountain nat. notes, 1:2-3 (July 1); 6-7 (Aug.1); 4-5 (Aug.18); 6 (Sept.1); 4-5 (Sept.15).

Series of five articles on: 1. The Long's Peak granite. 2. Mount Olympus granite. 3. Big Thompson schist. 4. Volcanic rocks of Specimen Mountain. 5. Dike rocks of Rocky Mountain National Park region.

1929 The "iron dike." Rocky Mountain nat. notes, 2:5-7 (Aug.1), map.

Notes on a geological formation which extends almost the length of the park.

1929a Some geodes from Specimen Mountain. Rocky Mountain nat. notes, 2:3 (Sept.1).

1929b The story of "Hidden Valley." Rocky Mountain nat. notes, 2:[1]-2 (Aug.15).

Geological history of a valley in Rocky Mountain National Park.

Branson, E. B.

1927 Triassic-Jurassic "red beds" of Rocky Mountain region.

Jour. of geol., 35:607-30 (Oct.-Nov.), illus., maps.

Discussion and conclusions concerning the origin of certain formations in the Front Range of the Rocky Mountains.

*Butters, R. M.

1913 Permian or "Permo-Carboniferous" of the Rocky Mountains in Colorado. Colo. Geol. Surv., Bul. 5, pt. II:[61]-94, bibliog.

Chamberlin, Rollin T.

1919 The building of the Colorado Rockies. Jour. of geol., 27: 145-64 (Ap.-May); 225-51 (May-June), illus., map, bibliog.

Includes a description of the formations of the Long's Peak region.

Cornwall, Dean T.

1932 Our more common rocks. Rocky Mountain nat. notes, 5:77-78 (Aug.).

Brief descriptions of some common rocks of the park.

Dings, McClelland

1929 The geological story of Copeland Lake. Rocky Mountain

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nat. notes, 2:[1]-2 (July 15), illus.
This lake is in the park.

1934 Interesting geological spots [in Rocky Mountain National Park.]. Rocky Mountain nat. notes, 7:189-92 (July), illus.

Effinger, William L.

1934 A report on the geology of Rocky Mountain National Park. Berkeley, Calif., U. S. Dept. Int., Natl. Park Serv., 28 pp., illus., bibliog.

Emmons, S. F.

1887 On glaciers in the Rocky Mountains. Colo. Sci. Soc., Proc., 2:[211]-27.

Discussion of the discovery of a supposed glacier on Hague's Peak. Comparison of the Rocky Mountain glaciers with those of Mount Rainier.

1893 The Rocky Mountains of Colorado. Internatl. Geol. Cong., (B) 5th sess., Compte rendu, pp. 403-07. Washington, Govt. print. off.

General geological description including notes on the area of the present Rocky Mountain National Park.

Fenneman, Nevin M.

1905 Effect of cliff erosion on form of contact surfaces. Geol. Soc. Am., Bul., 16:205-14 (Ap.14), illus.

Study of the relation of the Wyoming red beds to the granite of the Front Range of the Rocky Mountains.

1931 [Land forms of Rocky Mountain National Park.] In his: Physiography of western United States, pp. 101-02. New York, McGraw-Hill Book co.

Flint, R. F.

1924 A brief view of Rocky Mountain structure. Jour. of geol., 32:410-31 (July-Aug.), illus., bibliog.

General discussion including material on the Front Range in Rocky Mountain National Park.

Fuller, Margaret B. See: Boos, (Mrs.) Margaret F.

George, Russell D.

1927 [Geological notes on Rocky Mountain National Park.] In his: Geology and natural resources of Colorado, p. 193. Boulder, Colo., Univ. Colo.

Girty, George H.

1903 The Carboniferous formations and faunas of Colorado. 57th

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U. S. Cong., 2d sess., House doc. 479, 546 pp., illus., bibliog. (ser. no. 4511) Washington, Govt. print. off.
Includes considerable material on the region of the present Rocky Mountain National Park.

Hague, Arnold

1897 [Topography and geology of the Long's Peak and Estes Park areas.] U. S. Engr. Dept., Prof. pap. 18, pt. II:19-21, 24-25, 55-58, 63. Washington, Govt. print. off.

Hares, C. J.

1926 Post-Eocene-pre-Miocene glaciation in the Rocky Mountains. Geol. Soc. Am., Bul., 37:175-76 (Mar.).
Abstract of a paper read before the Society. The area discussed includes the Front Range.

Hayden, Ferdinand V.

1869 Trip to Middle Park. In his: Preliminary field report of the United States Geological Survey of Colorado and New Mexico, pp. 81-86. Washington, Govt. print. off.
Includes a geological description of the Long's Peak region.

1875 Notes on the surface features of the Colorado or Front Range of the Rocky Mountains. U. S. Geol. and Geog. Surv. of the terrs., Bul. 1 (2d ser.):215-20, illus. Washington, Govt. print. off.

Heaton, Ross L.

1933 Ancestral Rockies and Mesozoic and late Paleozoic stratigraphy of the Rocky Mountain region. Am. Assn. Petrol. Geol., Bul., 17:109-68 (Feb.), illus., map, bibliog.
Technical discussion of the structure of the Rocky Mountains including material on the Front Range.

Henderson, Junius

1909 The foothills formations of north central Colorado. Colo. Geol. Surv., 1st Rept., 1908:[145]-88, illus., bibliog.
Geological description of the region from Boulder, Colo., to the Wyoming boundary, including material on areas now within the Rocky Mountain National Park.

Kearns, William E.

1933 Variations in park climate. Rocky Mountain nat. notes, 6: 98 (Aug.).

King, Clarence

1878 [Some geological formations of Long's Peak.] U. S. Engr. Dept., Prof. pap. 18, pt. I:26. Washington, Govt. print. off.

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Lee, Willis T.

1916 Relation of the Cretaceous formations to the Rocky Mountains in Colorado and New Mexico. U. S. Geol. Surv., Prof. pap. 95:27-58, illus., maps. Washington, Govt. print. off.
Part of the area discussed is in the Rocky Mountain National

Park.

1917 The geologic story of the Rocky Mountain National Park, Colorado. U. S. Dept. Int., Natl. Park Serv., 89 pp., illus., maps. Washington, Govt. print. off.

1923 Penplains of the Front Range and Rocky Mountain National Park, Colorado. U. S. Geol. Surv., Bul. 730:1-17, illus., map. Washington, Govt. print. off.

1926 Quaternary landscapes. In his: Stories in stone, pp. 140-42. New York, Van Nostrand.
Includes notes on the geological development of the present Rocky Mountain National Park region.

Little, Homer P.

1925 Erosional cycles in the Front Range of Colorado and their correlation. Geol. Soc. Am., Bul., 36:495-512 (Sept. 30), illus., map, bibliog.

*Lovering, T. S.

1929 Geologic history of the Front Range, Colorado. Colo. Sci. Soc., Proc., 12.

1932 Field evidence to distinguish overthrusting from underthrusting. Jour. of geol., 40:651-63 (Oct.-Nov.), illus.
Includes reference to faulting in the Rocky Mountain National Park region.

McLaughlin, John S.

1930 Rocky Mountain glaciers. Rocky Mountain nat. notes, 3:24-25 (Sept.).

Notes on the Hallett, Sprague, Tyndall, Andrews, and Taylor glaciers of Rocky Mountain National Park.

Mills, Enos A.

1926 The romance of geology. Garden City, N. Y., Doubleday, Page and co., 245 pp., illus.

Includes many brief references to the geology of the Rocky Mountain National Park.

Moinat, Arthur D.

1934 Our trees as recorders of the weather. Rocky Mountain nat. notes, 7:111-14 (Jan.).

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Notes on the past and present climate of the Rocky Mountain National Park region as revealed by tree rings.

Moomaw, Jack C.

- 1933 Our glaciers. Rocky Mountain nat. notes, 6:14-17 (Feb.).
Discussion and statistics on the question: "Are the glaciers of the park disappearing?"

Parry, C. C.

- 1862 Physiographical sketch of that portion of the Rocky Mountain range at the headwaters of South Clear Creek, and east end of Middle Park: with an enumeration of the plants collected in this district in the summer of 1861. Am. jour. sci. and arts, 2d ser., 33:231-43 (Mar.).
This portion of Middle Park is now included in Rocky Mountain National Park.

Quam, Louis O.

- 1934 Bird-baths, potholes and lakes [in Rocky Mountain National Park]. Rocky Mountain nat. notes, 7:228-29 (Oct.), illus.

- 1934a Weathering in its relation to landscape. Rocky Mountain nat. notes, 7:156-59 (Ap.).
Includes reference to rocks near Estes Park and Long's Peak.

Reeside, John B., jr.

- 1923 The fauna of the so-called Dakota Formation of northern central Colorado and its equivalent in southeastern Wyoming. U. S. Geol. Surv., Prof. pap. 131:199-205, illus. Washington, Govt. print. off.
Technical discussion of fossil fauna. Many of the specimens were found in and around Rocky Mountain National Park.

Sellers, Jesse E., joint author. See: Van Valkenburgh, Horace, 1929.

Spock, L. E., jr.

- 1928 Geological reconnaissance of parts of Grand, Jackson, and Larimer counties, Colorado. New York Acad. Sci., Annals, 30:177-261, illus., maps, bibliog.
The area discussed includes part of Rocky Mountain National Park and territory adjacent to it on the west.

[Stone, G. H.]

- 1887 A live glacier on Hague's Peak, Colorado. Sci., 10:153-54 (Sept. 23).
Description of a glacier discovered in 1883. It is named Hallett Glacier after its discoverer.

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Tieje, A. J.

1923 The red beds of the Front Range in Colorado: a study in sedimentation. Jour. of geol., 31:192-207 (Ap.-May).

Trimble, Robert E.

1912 [The Long's Peak wether station and tables on temperatures in Rocky Mountain National Park.] Colo. Agric. Coll., Agric. Exper. Sta., Bul. 182:12-13, 46-48.

Van Valkenburgh, Horace, and Sellers, Jesse E.

1929 Investigation of the Estes Park "meteorite." Univ. Colo. studies, 17:17-22 (May), bibliog.
Description of fragments of material found near Estes Park, said to be pieces of a meteorite.

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INDIANS

Anonymous

1933 More Indian material. Rocky Mountain nat. notes, 6:44-45 (Ap.).

Notes on the discovery of several "metates" or food-grinding stones of former Indian inhabitants of the Rocky Mountain National Park region.

1935 More tipi rings. Rocky Mountain nat. notes, 8:40 (Ap.).
Notes on the discovery of Indian camp sites in the park.

Beals, Ralph L., and Yelm, Betty

1934 Indians of the park region. Rocky Mountain Nat. Assn., Pub. 2, 51 pp. (July), bibliog.

Detailed description of the social life and customs of the Arapaho and Ute Indian tribes which formerly occupied the area of the Rocky Mountain National Park.

Beals, Ralph L.

1935 Ethnology of Rocky Mountain National Park: the Ute and Arapaho. Berkeley, Calif., U. S. Dept. Int., Natl. Park Serv., 27 pp., illus., map, bibliog.

Discussion of the housing and food supply, weapons and warfare, political organization, religion and ceremonies of the Ute and Arapaho Indians of the park region.

Boyer, Warren E.

1923 The triumph of Trail Ridge. In his: Vanishing trails of romance, pp. 40-46, illus. Denver, Colo., Great West Pub. Legend concerning the Ute and Arapaho Indians of the park region.

*McPherson, M. Imogene

1917 An Indian legend. Pleasureland, 22:5 (Oct.).

Moomaw, Jack

1928 Arrowheads. Rocky Mountain nat. notes, 1:4-6 (Aug.1).

Notes on the arrowheads made of many different rocks which testify to the roving habits of the Indians of the park region.

1930 Indian relics. Rocky Mountain nat. notes, 3:27-30 (Sept.).

Discussion of the character of Indian relics in the park which indicate that "humans lived, hunted, and fought in what is now Rocky Mountain National Park as soon after the last ice age as the country would support them."

1931 The first inhabitants. Rocky Mountain nat. notes, 4:7-8

ROCKY MOUNTAIN NATIONAL PARK

(June).

Brief description of Indian relics.

1935 Local Yuma points. Rocky Mountain nat. notes, 8:4 (Jan.).
Notes on prehistoric weapons found in the park.

1936 Stones. Rocky Mountain nat. notes, 9:20-21 (Jan.).
Discussion of sandstone squares probably brought into the
Rocky Mountain National Park region by Indians sometime in the past.

Preston, John

1935 Indians of the Park. Rocky Mountain nat. notes, 8:29-32
(Ap.).

Yeager, Dorr G.

1931 Flattop's mystery wall. Rocky Mountain nat. notes, 4:41
(Oct.).

Description of small pocket-like depressions in the talus
slope of Flattop Mountain and a rock wall which are apparently man-
made but whose purpose is still uncertain.

Yelm, Betty

1933 Ancient pottery. Rocky Mountain nat. notes, 6:7-8 (Jan.).
Notes on specimens collected from 14 sites in the park.

Yelm, Betty, joint author. See: Beals, Ralph L., 1934.

TIMPANOGOS CAVE NATIONAL MONUMENT

Anonymous

1924 Timpanogos Cave National Monument. Playground, 18:485
(Oct.), illus.
Historical and descriptive notes.

1925 Timpanogos Cave National Monument. Am. Scenic and Hist.
Preservn. Soc., 30th Ann. rept., 1925:170.
Brief notes on the location and features of the monument.

*1927 A view in Timpanogos Cave. Utah. educ. rev., (Mar.):344,
illus.
Brief general description of the cave, its colors and form-
ations.

Borah, Leo A.

1936 Utah, carved by winds and waters. Natl. geog. mag., 69:
[577]-623 (May), illus., map.
Includes a brief descriptive note on Timpanogos Cave.

Green, George A.

1924 The secret cave of Mount Timpanogos. Am. forests and for-
est life, 30:425-27 (July), illus.
General description of the cave.

Hayes, Murray

1933 Mount Timpanogos. Internatl. Geol. Cong., Guidebook 17
(Excursion C-1):98-101, illus., bibliog. Washington, Govt.
print. off.
Geological description of the Timpanogos Cave region and a
brief note on the origin of the cave.

Korstian, C. F.

1926 Timpanogos area. In: Naturalist's guide to the Americas
(Victor E. Shelford, ed.), p. 560. Baltimore, Williams
and Wilkins.
Notes on the vegetation, scenery, and glaciation of the
Timpanogos Cave National Monument area.

Quinn, Vernon

1923 [Timpanogos Cave.] In his: Beautiful America, p. 282.
New York, F. A. Stokes co.

Scoyen, Eivind T., and Taylor, Frank J.

1931 Timpanogos Cave National Monument. In their: The rainbow

SOUTHWESTERN STATES

canyons, p. 96, illus. Stanford Univ., Calif., Stanford Univ. press.
Brief description.

United States. Department of Interior

1923- /Administrative reports on Timpanogos Cave National Monument. U. S. Dept. Int., Ann. repts., 1923-1932. Washington, Govt. print. off.

Voth, Hazel H., and others

1938 Timpanogos Cave National Monument. In: Guide to national parks and monuments west of the Mississippi River, p. 88. Berkeley, Calif., U. S. Dept. Int., Natl. Park Serv.
Specifies location, area, and date of establishment. Briefly describes the principal features.

Walker, Thomas A.

1934 Geological factors of Timpanogos Cave. Zion-Bryce nat. notes, 6:36-37 (July-Aug.).

WHEELER NATIONAL MONUMENT

Anonymous

- 1909 The Wheeler National Monument. Natl. geog. mag., 20:837-40
(Sept.), illus.
Brief description of the monument and three pages of photographs.
- 1925 Wheeler National Monument. Am. Scenic and Hist. Preservn. Soc., 30th Ann. rept., 1925:147.
Descriptive notes.

[Bethel, Ellsworth]

- 1924 National monuments in Colorado. Colo. mag., 1:191 (May).
Includes notes on the size, location, and features of Wheeler National Monument.

Carhart, Arthur H.

- 1923 The Wheeler National Monument. Outlook, 125:[353]-56 (Oct. 31), illus.
Brief description of the monument and several photographs of its peculiar rock formations.

-
- 1924 A western gnomeland, where wind and water have created a land as fantastic as any ever dreamed. Sunset, 53:12-13, 79 (July), illus.
Description of the weird rock formations of Wheeler National Monument.

-
- 1925 The gem-grotesque of American scenery. Am. forests and forest life, 31:391-93, 406 (July), illus.
General description of Wheeler National Monument and its peculiar rock formations.

-
- 1932 [Wheeler National Monument.] In his: Colorado, pp. 187-88
New York, Coward-McCann.
Descriptive notes.

Faris, John T.

- 1930 [Wheeler National Monument.] In his: Roaming the Rockies, p. 261. New York, Farrar and Rinehart.
Brief description.

-
- 1934 [Wheeler National Monument.] In his: Roaming American playgrounds, pp. 135-36. New York, Farrar and Rinehart.
Brief description.

SOUTHWESTERN STATES

- George, Russell D.
1927 [Geological and topographical notes on Wheeler National Monument.] In his: Geology and natural resources of Colorado, pp. 192-93. Boulder, Colo., Univ. Colo.
- Hopley, Frank D.
1924 The Wheeler National Monument. A rock pageant of barbaric beauty. Mentor, 12:58-59 (July), illus.
Descriptive and historical notes.
- Parsons, Eugene
1911 [Wheeler National Monument.] In his: A guidebook to Colorado, pp. 352-53. Boston, Little, Brown.
Brief description.
- Quinn, Vernon
1923 [Wheeler National Monument.] In his: Beautiful America, pp. 280-81, illus., map. New York, F. A. Stokes co.
Description.
- Spencer, Frank C.
1924 The Wheeler National Monument. Colo. mag., 1:97-103 (Mar.).
Description of the monument and an account of its discovery and subsequent history.

1929 The scene of Fremont's disaster in the San Juan Mountains. Colo. mag., 6:141-46 (July), illus.
Account of the scientific expedition under General John C. Fremont which met disaster in the vicinity of the present Wheeler National Monument as a result of bad weather conditions.
- [Toll, Roger W.]
1926 Wheeler National Monument. In: Naturalist's guide to the Americas (Victor E. Shelford, ed.), pp. 526-27. Baltimore, Williams and Wilkins.
Brief description.
- United States. Department of Interior
1908- [Administrative reports on Wheeler National Monument.]
1932 U. S. Dept. Int., Ann. repts., 1908-1932. Washington, Govt. print. off.
No reports for 1909, 1910, and after 1932.
- *United States. Forest Service
1924 Cochetopa National Forest, Colorado. 15 pp., map.
- United States. National Park Service
1917 Wheeler National Monument. In: General information regarding the national monuments set aside under the act of Con-

WHEELER NATIONAL MONUMENT

gress approved June 8, 1908, pp. 67-69, map. U. S. Dept. Int., Natl. Park Serv. Washington, Govt. print. off.

Voth, Hazel H., and others

- 1938 Wheeler National Monument. In: Guide to national parks and monuments west of the Mississippi River, p. 48. Berkeley, Calif., U. S. Dept. Int., Natl. Park Serv.
Specifies location, area, and date of establishment. Briefly describes the principle features.

Wheeler, George M.

- 1875 [Geological description of the present Wheeler National Monument.] In: Report upon geographical and geological explorations and surveys west of the one hundredth meridian, pp. 314, 322, 467-70. U. S. Army, Engr. dept. Washington, Govt. print. off.

Yard, Robert S.

- 1919 [Wheeler National Monument.] In his: The book of the national parks, p. 417. New York, Scribner's.

- 1920 Natural and historic national monuments. Art and archeol., 10:55-63 (July-Aug.), illus.
Includes a brief description of Wheeler National Monument.

ZION-BRYCE CANYON NATIONAL PARKS

The bibliography for this section was not completed. if, at some future date, it is found possible to compile it, the missing pages will be forwarded for inclusion in this volume.

VIII. TERRITORIAL PARKS AND MONUMENTS

TERRITORIAL PARKS AND MONUMENTS

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- I. GLACIER BAY NATIONAL MONUMENT
- II. HAWAII NATIONAL PARK
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- VI. SITKA NATIONAL MONUMENT

GLACIER BAY NATIONAL MONUMENT

Anonymous

1899 The late Alaska earthquake. Sci. Am., 81:405-6 (Dec. 23),
illus.

An account of the devastating earthquake of September 10,
1899, which altered the Alaskan coast line. All the glaciers of Gla-
cier Bay National Monument were destroyed or mutilated.

1900 Compilation of narratives of explorations in Alaska. Senate
rept., 1023, 56th Cong., 1st sess., ser. 3896, vol. 11, 825
pp., illus., maps.

A narrative of reconnaissances by explorers in Alaska, under
the auspices of the War Department. Includes much of the national
park and monument areas.

1900a Muir Glacier destroyed. Sci. Am., 83:5 (July 7).
Damage done to this glacier in the great earthquake of Sep-
tember 10, 1899.

1903 Muir glacier. Natl. geog. mag., 14:441-5 (Dec.), illus.,
map.
Details changes in this glacier between 1890 and 1903.

1904 Geological survey publications on Alaska. U. S. Geol. Surv.,
bul. 227, pp. 198-202, index.
A chronological list (1891-1904) of papers and topographic
maps. Includes accounts of various expeditions, discoveries, geologi-
cal surveys, and mining reports. Takes in Glacier Bay area.

1930 Glacier Bay National Monument. In: Glimpses of our na-
tional monuments, pp. 27-8. Dept. Int., Natl. Park Serv.
Washington, Govt. Print. Off.
Facts and descriptive notes on this monument.

Albright, Horace M., and Taylor, Frank J.

1928 Glacier Bay National Monument. In their: Oh, ranger! p.
167. Palo Alto, Calif., Stanford Univ. Press.

Allen, Edward W.

1925 Glacier Bay National Monument. Mountaineer, 18:54-5 (Dec.),
illus.
An account of the glaciers and other features of the area.

Ames, Charles R.

1892 Some American glaciers. The Californian mag., 1:564-73
(May), illus., map.

Muir Glacier is described as a wall of virgin ice, showing
hues of blue, green, yellow, and gold in the sunlight. Its length
is estimated at 40 miles, its greatest width at 25. Professor S.

TERRITORIAL PARKS AND MONUMENTS

Ames, Charles R., continued.

Frederick Wright believes that early in this century the ice of this glacier filled the inlet several miles further down than is the case now, and 1000 or 1500 feet above its present level; that there are 1200 square miles of ice in it, and that the amount of water passing, in one form or another, from the glacier is 269,632,640,000 cubic feet annually.

Andrews, C. L.

1903 Muir Glacier. Natl. Geog. mag., 14:441-4 (Dec. 12), illus.

1931 The retreat of Muir Glacier. Mountaineer, 24:11-17 (Dec.), illus., maps.

The steady recession of this glacier (1879-1913), is discussed. In 1899 an earthquake changed the ice front and made the approach of ships impossible.

Bade, W. F.

1923 The life and letters of John Muir. 2 vols., 353 pp., illus., Boston, Houghton Mifflin.

Contains much information on Muir's explorations and studies of the glaciers of Glacier Bay.

Badlam, Alexander

1890 [Muir Glacier.] In his: The wonders of Alaska, pp. 42-9, illus., maps. San Francisco, Bancroft.

Baldwin, S. P.

1892 Muir Glacier, Alaska. Sci. Am., 66: 227-8 (Ap. 9), illus.

Description and measurements of this immense glacier.

Brooks, Alfred H., and others

1906 The geography and geology of Alaska, a summary of existing knowledge by Alfred H. Brooks, with a section on climate by Cleveland Abbe, Jr., and a topographic map and description thereof by R. U. Goode. 330 pp., illus., maps, index. Washington, Govt. Print. Off.

Contains information, description, and history of Glacier Bay and other monument areas.

Buel, J. W.

1894 [Glacier Bay and Muir Glacier.] In his: America's wonderlands, pp. 226-31, illus. Vancouver, B. C., J. M. MacGregor.

Burroughs, John, and others

1901 Alaska; Harriman Alaska expedition. Vol. 1, 183 pp., illus., map. New York, Doubleday Page.

GLACIER BAY NATIONAL MONUMENT

The expedition included sections of Glacier Bay National Monument. This volume deals with various scientific fields covered by the expedition.

1904 Glacier Bay and Muir Glacier. In his: Far and near, pp. 39-53. Boston, Houghton, Mifflin.

Cooper, William S.

1924 The battle of ice and forest. Am. forests and forest life, 30:195-8, 234 (Ap.), illus.
The struggle of young plants to survive as the glaciers move.

1926 Glacier Bay. In his: Naturalists' guide to the Americas, p. 148. Baltimore, Williams and Wilkins.

This many-branched fiord, 60 miles long, is surrounded by lofty ice-covered mountains, with their hundreds of glaciers. Muir Glacier is the largest of nine tidewater glaciers discharging icebergs. Every stage in plant succession, from pioneers to spruce-hemlock forest, is found here. Subarctic fauna, such as goats, bears and ptarmigan, are well developed.

Cushing, H. P.

1892 Notes on the geology of the vicinity of Muir Glacier. Natl. geog. mag., 4:56-62 (Mar.), map.

1896 Notes on the areal geology of Glacier Bay, Alaska. N. Y. Acad. Sci., trans., 15:24-34.

Report of the results of the exploration and mapping of Muir Glacier in 1890, and of a similar exploration of the shores of upper Glacier Bay in 1892. The writer describes the general geology of the region, dealing with the distribution of such rocks as limestones, quartz-diorite, diorite, and crystalline schists. Includes petrographical notes.

Eldridge, George H.

1900 A reconnaissance in the Susitna Basin and adjacent territory, Alaska, in 1889. U. S. Geol. Surv., 20th ann. rept., (1898-99). Pt. 7, 509 pp., illus., index, maps.

Discusses topography, geology, agriculture, game, and the inhabitants, with special reference to volcanic and glacial action in this monument area.

Emerson, B. K., and others

1904 Alaska. Harriman Alaska expedition. 4:1-162, illus., map, index. New York, Doubleday Page.

Contains papers on geology and paleontology. Study of the fossils secured resulted in the discovery of 38 new species and 7 new genera.

TERRITORIAL PARKS AND MONUMENTS

Fillippi, Filippo de
 1900 The ascent of Mount St. Elias. 240 pp., illus., maps, index.
 Westminster, Archibald Constable.

Martin, Lawrence, and Williams, Frank E.
 1924 An ice-eroded fiord, the mode of origin of the Lynn Canal,
 Alaska. Geog. rev., 14:575-96 (Oct.), illus., maps, bibliog.
 States that the fiord is chiefly due to glacial erosion, and
 that stream erosion and faulting are of minor importance. Discusses
 direction of the ice movement, role of faulting, and the absence of
 evidence of drowning of valleys. Contains descriptions.

Mills, Enos A.
 1919 Will the grizzly be exterminated? In his: The grizzly, pp.
 273-83. New York, Houghton, Mifflin.

Morse, Fremont
 1908 Recession of the glaciers of Glacier Bay, Alaska. Natl.
 geog., 19:76-8 (Jan.).

Muir, Hohn
 1884 On the glaciation of the Arctic and Subarctic regions
 in the year 1881. 48th Cong., 1st sess., Sen. rept., 8:
 135-47, illus.
 A study of glacial action in various portions of the Arctic
 and Alaska, including the Fairweather ice sheet in Glacier Bay. It
 was concluded that: (1) these regions were covered with a mantle of
 ice, which pursued a southerly direction, and discharged into the
 Pacific Ocean south of the Aleutian Islands; (2) After the close of
 the period of universal glaciation, the mountains along the coasts
 of Bering Sea and the Arctic Ocean were loaded with glaciers, many
 of which have been recently vanished; (3) the sculpture of the region
 is mainly due to glacial action.

 1893 Alaska. Am. geol., 11:287-99 (May).
 General information, description, and discussion of the move-
 ment of Muir Glacier.

 1895 The discovery of Glacier Bay. Century, 50:234-47 (June),
 illus., map.
 John Muir's account of his discovery of Glacier Bay, includ-
 ing the glacier named after him, and other glaciers.

 1901 Notes on the Pacific Coast glaciers. In his: Harriman
 Alaska expeditions, 1:119-35, illus. New York, Doubleday,
 Page.
 Glacier Bay has 9 large, berg-producing glaciers, of which
 the Muir is the largest.

GLACIER BAY NATIONAL MONUMENT

1915 Travels in Alaska. 326 pp., illus. Boston, Houghton, Mifflin.

The author divides his book into three parts: (1) his discovery of Glacier Bay, with a huge ice mountain at its head, and five other glaciers around it; (2) new discoveries made there in 1880; and (3) his return there in 1890 for the purpose of further exploration and naming of glaciers discovered.

Scidmore, Eliza R.

1896 The discovery of Glacier Bay, Alaska. Natl. geog. mag., 7: 140-6 (Ap.), illus., map.

Taylor, Frank J. See: Albright, Horace M.

Yard, Robert S.

1931 Glacier Bay National Monument. In his: The national parks portfolio, sixth ed., p. 269, illus. Washington, Govt. print. off.

Causes and results of glacial action.

HAWAII NATIONAL PARK

Anonymous

1842 Eruption of the volcano of Kilauea, in the island of Hawaii (Owhyee). Penny mag., 11:274-6 (Apr.)

The appearance of fire in the mountainous region of Kilauea preceded the eruption which occurred in June, 1840. During the flow of the eruption the great crater of Kilauea sank about 300 feet. No lives were lost and but little property was destroyed, as the stream of lava passed over an almost uninhabited desert.

1864 Mineralogy and geology. Volcano of Kilauea, Hawaii. Am. jour. sci. and arts, 2d ser., 37:415-7 (May).

Letters from two missionaries tell of the vast changes occurring in the outer crater and in the fire pit of Kilauea, of the 600-foot tableland lifted in the center of the pit, and of the surging lava breaking through the wall. The writer describes lava fountains, fiery waves rolling up on black lava beaches, and rivers of molten rocks.

1877 Recent outbreak of a Sandwich Island volcano. Pop. sci. mo., 11:125 (May).

"The volcano of Mauna Loa, Hawaii, was lately active for a few days, commencing on the evening of February 14." A description of the sudden and violent outbreak is reprinted from the San Francisco Chronicle. When the eruption started, a column of fire rose to 16,000 feet above the summit. A submarine volcanic eruption near the entrance to Kealakeakua Bay is causing an unusual display. So far as known, no damage has attended the eruption.

1881 The crater of Kilauea. Sci. Am., 45:195-6 (Sept. 24).

A new opening in the floor of the great crater of Kilauea has created a new lake with a convex surface and leaping fountains of fire, "a vortex of indescribable glories and terrors."

1881a Progress of the volcanic eruption on Hawaii. Am. jour. of sci., 3d ser., 22:226-9 (Sept.).

Portions of letters written from Hawaii, describing the scenes and activities during the great eruption of Mauna Loa in 1881.

1885 The volcano of Kilauea, Hawaiian Islands. Pamphlets on travel, vol. 4, no. 8, 23 pp., illus. Daily commercial advertiser. Honolulu.

1889 Notes on Mauna Loa in July, 1888. Am. jour. sci., 3d ser., vol. 37, no. 217, pp. 51-3.

TERRITORIAL PARKS AND MONUMENTS

Anonymous

- Observations and measurements of fissures, source of lava streams, and outflows in the crater of Mauna Loa. Depths and diameters of pits in this crater are given. The height of an active fountain of lava was determined to be 600 feet.
- 1894 The volcanoes of the Sandwich Islands. Chamber's jour., 11:472-4 (July 21).
- 1896 A view of Kilauea. Nat., 53:490-1 (Mar. 26), illus.
- 1899 Hawaiian Island volcanoes. Pacific rur. press, 58:124 (Aug. 19), illus.
- 1904 Forests of the Hawaiian Islands. Forestry and irrig., 10:361-5 (Aug.), illus.
A discussion of the decrease in the Hawaiian forests due to clearing land for agriculture, stock grazing, and grass encroachment.
- 1906 Hawaiian mountain records. Mo. weather rev., 34:222-3 (May).
The importance of publishing observations made by American geodesists at high altitudes in Hawaii.
- 1907 Hawaiian volcanoes. Pac. rur. press, 74:172 (Sept. 7).
- 1909 Early tobacco culture in Hawaii. A brief historic sketch. Hawaiian almanac and ann., 1910, pp. 111-7.
- 1909a Retrospect for 1909. Hawaiian almanac and ann., 1910, pp. 164-82.
Among other matters, reports the establishment of an observatory for the study of earthquake and volcanic phenomena at Kilauea.
- 1911 The seven scenic wonders of the world in Hawaii. Mid-Pacific mag., 2:103-13, illus.
Includes a description of the volcanoes of the park area.
- 1911a Volcanoes of Kilauea and Manuna Loa. Hawaiian almanac and ann., pp. 133-8.
The author cites the recent work of Dr. Bigham, presenting an account of eruptions and periods of activity as seen and recorded by local observers, from the earliest reports to those of recent date.
- 1913 Year book no. 12, 1913. Pp. 127-9. Carnegie instn. Washington, D. C.
Analyses of gases from the volcano of Kilauea.

HAWAII NATIONAL PARK

Anonymous

1914 Geology. Volcanoes. New international year book, 1913, p. 277.

A study of temperatures in Kilauea volcano in Hawaii National Park, using a thermocouple of platinum and iridioplatinum immersed in the lava pool. This study also includes analyses of the gases thrown off by the volcano.

1914a Researches at Kilauea. Sci. Am., 110:52 (Jan. 10).

The results of investigations at the crater of Kilauea; the establishment of a volcanological observatory; analysis of lava specimens; and volcanic activity.

1916 An Act to establish a national park in the Territory of Hawaii. U. S. stat. at lg., vol. 39, pt. 1, pp. 432-4.

Statement of the Act approved by Congress on August 1, 1916, establishing Hawaii National Park.

1916a Exploration and field work of the Smithsonian Institution in 1916. Smithsn. misc. colls., vol. 66, no. 17 (pub. 2438), 134 pp., illus.

A report on botanical explorations in the Hawaiian Islands and elsewhere.

1916b Uncle Sam's latest playgrounds—the Hawaiian National Park. Overland mo., 68:553-6 (Dec.), illus.

1917 Exploring a live volcano. Lit. dig., 4:22-3 (Sept. 1), illus., map.

A short report of the scientific investigations in the crater of Kilauea, made under the direction of the Massachusetts Institute of Technology.

1917a Botanical explorations in the Hawaiian Islands. Smithsn. misc. colls., vol. 66, no. 17 (pub. 2438), pp. 59-73, illus.

1917b Exploring live volcanoes. Sci. Am., 117:37-49 (July 21), illus.

The daring exploits of Prof. T. A. Jaggar and his associates during their scientific expeditions into the lava pits of Kilauea to measure the temperature of the liquid lava and to obtain gases for analysis.

1918 The Hawaii National Park. Pan. Am. union, bul., 46:794-803 (June), illus.

Information about the volcanoes of Hawaii National Park, which "are wholly unique of their kind, the most famous in the

TERRITORIAL PARKS AND MONUMENTS

Anonymous, Continued

world of science, and the most continuously, variously, and harm-
lessly active volcanoes on earth."

1918a Volcanoes. New international year book, 1917, p. 740.

This article includes a comment on an account of the Mauna
Loa outbreak of May, 1916. The eruption is attributed to gas pres-
sure in the conduit. The agency of gas is considered a prominent
factor in the activity of both Kilauea and Mauna Loa, which are
thought to be connected by subterranean gas channels rather than
by lava siphons. Phases of the eruption, tending to support the
conclusions mentioned, are described.

1919 Lava flows of Kau. Mid-Pacific mag., 17:493-4 (May 5),
illus.

An article on the two formations of lava flow of Kau, their
extent and nature, and the devastation they caused.

1919a Why is a volcano? Independent, 98:398 (June 14), illus.

Prof. T. A. Jaggar's extended series of observations at the
lava pit of Halemaumau enabled him to predict the eruption of Mauna
Loa. Theories on the causes of eruptions are given.

1921 A questionnaire on the volcano of Kilauea. Mid-Pacific
mag., 22:17-24 (July), illus.
Comprehensive information for tourists.

1921a National park dedication. Hawaiian almanac and ann., 1922,
p. 67.

A note on the dedication ceremonies, July 9, 1921, which for-
mally admitted Kilauea into the national park family.

1922 An Act to add a certain tract of land on the island of Ha-
waii to the Hawaii National Park. U. S. stat. at lg., vol.
42, pt. 1, pp. 503-4.

Describes and bounds the 43,400-acre area in the district of
Kau, added to the park May 1, 1922.

1924 [Act to repeal a part of section four of the Act establish-
ing the Hawaii National Park.] U. S. stat. at lg., vol.
43, pt. 1, p. 390.

This Act repeals the provision of the 1916 Act limiting
park appropriations to \$10,000 unless authorized by law.

1924a Colorful wonders of the Hawaiian Islands. Natl. geog. mag.,
45:191-206 (Feb.), illus.

The volcanic craters, rivers, and fountains of lava to be
seen at Kilauea, Halemaumau, Mauna Loa, and Haleakala, in Hawaii

HAWAII NATIONAL PARK

National Park are reproduced in ten of the pictures in this inserted section of colored photographs.

- 1927 [Volcanic activity in the crater of Kilauea.] Sci., n.s.,
supp., 65:14 (Ap. 1).
An item describing a very unusual activity of a pit in the
crater of the largest living volcano in the world.
- 1928 Hawaii National Park. 18 pp., illus. Dept. Int., Natl.
Park Serv. Washington, Govt. print. off.
A descriptive pamphlet, of interest to tourists.
- 1930 Exploring Hawaii's natural botanical gardens. Mid-Pacific
mag., 40:317-22 (Oct.), illus., map.
The area of Hawaii National Park, ranging from tropic sea-
level to mountain heights, was the region chosen for a Pan-Pacific
acclimatization garden to which plants from every climate and eleva-
tion might be brought and propagated, for the research use of phar-
macists and botanists.
- 1932 Kilauea volcano in eruption. Mid-Pacific mag., 43:319-26
(Ap.), illus.
- 1934 Hawaii National Park. In: General information on the na-
tional parks. 28 pp., illus., map. Dept. Int., Natl.
Park Serv. Washington, Govt. print. off.
- 1937 Maui and her Haleakala. Honolulu, Hawaii, Paradise of
the Pacific, vol. 49, no. 8 (Aug.), illus.
- Agar, William M., Flint, F. F., and Longwell, C. R.
1929 Volcanoes and volcanism. In: Geology from original
sources, pp. 268-338, illus. New York, Holt.
Contains description of Kilauea in Hawaii National Park,
and the eruptions of 1924.
- Albright, Horace M., and Taylor, Frank J.
1928 Hawaii. In their: Oh, ranger!, pp. 122, 139, 153, Palo
Alto, Calif., Stanford Univ. Press.
- Alexander, W. D.
1870 On the crater of Haleakala, island of Maui, Hawaiian group.
Am. jour. of sci. and arts, 2d ser., 49:43-8 (Jan.).
A letter to the editor describes an ascent of Haleakala.
- 1891 Mauna Loa and Kilauea. In: A brief history of the Hawai-
ian people, pp. 13-7. New York, Am. Book Co.

TERRITORIAL PARKS AND MONUMENTS

Alexander, W. D., continued.

- 1933 Mauna Loa's greatest eruption. Mid-Pacific mag., 45:317-28 (Ap.), illus.

Allen, Edward F.

- 1918 Hawaii. In his: The national parks of America, pp. 223-4. New York, McBride.

Anderson, Rufus

- 1864 Tour of the islands. In his: The Hawaiian Islands: their progress and condition. Pp. 127-41, illus. Boston, Gould and Lincoln.
Contains a brief description of Mauna Loa and Kilauea.

Anderson, Tempest

- 1917 Kilauea in Hawaii. In: Volcanic studies in many lands, 2d ser., pp. 61-6, illus. London, Murray.
Volcanic studies of Kilauea and Mauna Loa.

Andrews, George P

- 1898 Climate of the Hawaiian Islands. Hawaiian ann., 1898, pp. 103-5.

Armitage, George

- 1927 The scenic splendors of Hawaii. Mid-Pac. mag., 33:87-95 (Jan.), illus.
Contains description and information on Kilauea and Mauna Loa.

Avebury, John L.

- 1892 [Kilauea and Mauna Loa.] In: The beauties of nature and the wonders of the world we live in. Pp. 238-40. New York, Macmillan.

Bade, William F.

- 1921 Haleakala and Kilauea. Sierra club bul., 11:231-43, illus.
An account of a trip from Olinda, at an altitude of 4000 feet, to the summit of the huge extinct volcano of Haleakala. The writer describes the wild natural beauty of the region. He also gives an account of a trip to the rim of Halemaumau, the fire pit and molten lake of Kilauea, with its lava geysers, red-hot islands, and nests of Pele's hair of black, spun volcanic glass.

Baker, Albert S.

- 1921 Petroglyphs of Kau. Hawaiian almanac and ann., 1922, pp. 49-53, illus.
A description of the petroglyphs found in several parts of Kau within the park.

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- Baker, Edward P.
1885 Hawaiian volcanism. Overland mo., 2d ser., 6:602-5 (Dec.).
Discusses Mauna Loa and Kilauea.
- Baldwin, C. W.
1908 Kilauea. In: Geography of the Hawaiian Islands, pp. 58-63,
illus. New York, American Book Co.
66666
1914 High mountains of Hawaii. Mid-Pacific mag., 11:328-33
(Ap.), illus.
Descriptions of Mauna Kea, Mauna Loa, Hualalai, and their
geologic relation.

1914a The lava flow of 1899. Mid-Pacific mag., 8:367-73 (Oct.),
illus.
An account of an ascent of Mauna Loa during eruption, with
a description of the lava flow.
- Baldwin, D. D.
1918 The mountains of Maui. Mid-Pacific mag., 16:387-9 (Oct.),
illus.
Discusses the dead volcanic mountain, Haleakala.
- Baldwin, Lucy
1925 Hawaii: Kapiolani's defiance of Pele. Mid-Pacific mag.,
30:117-20 (Aug.), illus.
An account of the hold of religious tabus on the natives of
Hawaii. Chief among these was the dread of Pele, sacred fire god-
dess, who dwelt in the volcano of Kilauea. To her displeasure was
attributed the periodic earthquakes and eruptions. Kapiolani, a
female chief, was among the first to accept Christianity. The mis-
sionaries, realizing that they were making little progress against
the firmly-held native tabus and customs, persuaded Kapiolani to
defy Pele by throwing stones into her crater and plucking the sacred
ohelo berries that grew on the rim of the crater. The natives, see-
ing that Kapiolani was unharmed, rejected their superstitions and
embraced Christianity.
- Banks, Charles Eugene
1923 Hawaii, the big island. Mid-Pacific mag., n.s., 26:63-8
(July), illus.
Contains information and photographs.
- Beckwith, M. W. See: Green, L. C. 1926.
- Beretania, A.
1915 Notes on a walk through Haleakala. Mid-Pacific mag., 10:
171-5 (Aug.).

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Beringer, Pierre N.

- 1909 A tourist's paradise. Overland mo., 2d ser., 54:31-40 (July), illus.
Contains a graphic description of an eruption of Kilauea.

Berndt, Emil A.

- 1917 Maui's Hale-a-ka-la. Mid-Pacific mag., 14:547-51 (Dec.),
illus.

Bishop, Sereno E.

- 1892 Kilauea in April. Am. jour. sci., 3d ser., 44:207-10
(Sept.), illus.
Studies of the fire pit (Halemaumau) since the collapse of
the cinder cone on March 5, 1891.

- 1913 Scenery in Hawaii. Mid-Pacific mag., 5:35-41 (Jan.), illus.
Contains descriptions of Mauna Loa, Haleakala, and Kilauea.

Bliss, William R.

- 1873 [Volcanic eruptions and ruins of Mauna Loa.] In his: Par-
adise of the Pacific, pp. 98-123, illus. New York, Sheldon.
General description.

Bonesteel, C. H.

- 1917 Mauna Loa, 1916. Atlantic mo., 119:35-42 (Jan.).
Observations on the eruptions of Mauna Loa and Kilauea.

Bonney, T. G.

- 1912 [Kilauea.] In: Volcanoes, their structure and significance,
pp. 32-67, illus. London, John Murray.
Extensive description and discussion.

Brassey, Lady

- 1911 Mauna Loa. In: Wonders of nature, pp. 118-128. New York,
Collier.

Brigham, William T.

- 1869 Notes on the volcanic phenomena of the Hawaiian Islands,
with a description of the modern eruptions. Boston Soc.
Nat. Hist., Memoirs, vol. 1, pt. 3, pp. 341-472, illus.,
map, index.
A study of volcanic phenomena in Hawaii National Park, with
a survey of the entire group. Physiographic sketches are shown.
A review is made of all important historic eruptions in the group,
with volume of lave ejected. A study was made of meteorological
and magnetic effects during eruptions and lava flows. Chemical
analyses of volcanic gases and ejecta are furnished.

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- 1869a The eruption of the Hawaiian volcanoes, 1868. Boston Soc. Nat. Hist., Memoirs, vol. 1, pt. 4, pp. 564-87, maps. Eyewitnesses give graphic descriptions of the eruptions of Kilauea and Mauna Loa.
- 1887 Kilauea in 1880. Am. jour. sci., 3d ser., 34:19-27 (July), illus.
The increased proportions of Kilauea between 1865 and 1880 are explained. The raising of the floor to a height of 350 feet, four lakes of fire, Pele's hair, formation of cliffs, lava, and lava flows are described.
- 1891 On a recent eruption of Kilauea. Am. jour. sci., 3d ser., 41:507-10 (June).
A report of Prof. Wm. D. Alexander, describing the changes that took place in the crater of Kilauea during March, 1891.
- 1901 Kilauea and Mauna Loa. Bernice Pauahi Bishop Mus., vol. 2, memoir 4, pp. 22-7, illus., map, index. Honolulu, Bishop Mus. Press.
A history of the two active volcanoes in the Hawaii National Park up to 1909.
- 1909 Kilauea and Mauna Loa. Bernice Pauahi Bishop Mus., vol. 2, pp. 1-122, 379-600, illus., index. Honolulu, Bishop Mus. Press.
A monograph giving an account of the activities of Kilauea and Mauna Loa from 1864 to 1908, including accounts of eruptions and lava flows by Rev. William Ellis, Dr. Titus Coan, and others. Special studies were made of the northern sulphur bank of Kilauea and its Puna pit craters. Photographs illustrate various phases of volcanic activity.
- 1915 The pit craters in Puna. Mid-Pacific mag., 10:131-5 (Aug.), illus.
The author describes his first visit, in the early sixties, through the fern forests on the slopes of Mauna Loa in the Hawaiian Islands.
- Brotherus, V. F.
1927 Hawaiian mosses. Bernice Pauahi Bishop Mus., bul. 40, 30 pp., illus.
Many of these mosses occur around Mauna Loa and Kilauea.
- Brown, B. H.
1921 Origin of the Hawaiian flora. First Pan-Pacific Sci. Conference, Proc., 1920, pt. 1, pp. 131-42.
Includes discussion of flora in the park area.

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- Brown, E. W.
1925 Tides in lava. Wash. Acad. Sci., Jour., 15:421-2 (Nov. 4).
Observations made on the lava lake of Halemaumau in the fire pit of Kilauea, tending to prove the existence of lunar tidal waves in the lava.
- Brown, J. McMillan
1920 Pele and her sisters. Mid-Pacific mag., 19:344-8 (May),
illus.
A portion of Halemaumau, crater of Kilauea.
- Brumaghim, E., and Doerr, John E., Jr.
1931 Mythology of the volcanoes. Hawaii nat. notes, 1:7-8
(June), illus.
The author recounts the mythology centered around the Hawaiian volcanoes, as told by the natives. He also discusses the volcano family and tells how the whole island pays tribute to them.
- Brunner von Wattenwyl, C.
1895 On the Orthoptera of the Sandwich Islands. Zoological Soc.
of London, Proc., pp. 891-7.
- Bryan, E. H.
1929 The background of Hawaiian botany. Mid-Pac. mag., 37:33-
40 (Jan.), illus.
- Bryan, L. W.
1932 The Hilo Forest Preserve. Reprinted from the Hawaiian
planters' record, 36:279-321 (Jan.).
- Bryan, William A.
1915 Kilauea, the world's greatest active volcano. In his:
Nat. hist. of Hawaii, pp. 164-83, illus. Honolulu, Hawaiian
Gazette.
- Burhans, Harry N.
1931 The Hawaii National Park. Mid-Pacific mag., 42:167-70
(Aug.), illus., map.
- Burroughs, John
1912 Holidays in Hawaii. In: Time and change, pp. 119-155.
New York, Houghton Mifflin.
- Cammerer, Arno B.
1922 Hawaii National Park, Territory of Hawaii. Dept. Int.,
Natl. Park Serv., Rept., 1922, 4:63-4. In: Forestry pamphs.
The report notes the initial appropriation of \$10,000 by
Congress in 1921 for the administration of the park, the acquisition

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from private possession of the Kilauea and Mauna Loa areas, the provision for a road to connect them, the addition of the Kau desert to the Government reserve, and information relative to volcanic activity.

Carson, Max H. See: Grover, Nathan C. 1933.

Castle, William R.

1917 Hawaii past and present. 260 pp., illus. New York, Dodd, Mead.

A description, of interest to tourists.

Castle, William R., Jr.

1926 Hawaii past and present. 259 pp., illus., map. New York, Dodd, Mead.

Contains much popular information on the park area, including a full chapter on the volcanoes.

1928 Hawaii past and present. 265 pp., illus., map. New York, Dodd, Mead.

General information on the islands, with scattered references to areas of the national park.

Caum, Edward L.

1930 New Hawaiian plants. Bernice P. Bishop Mus., occasional papers, 9:1-30 (Sept.), illus.

Many of these plants are found in the park.

Cheever, Henry T.

1851 Life in the Sandwich Islands. 355 pp., illus., map, index. New York, Barnes.

Contains material on the volcanoes and other aspects of the park area.

Cheney, M. L.

1892 Kilauea. Overland mo., 2d ser., 19:561-76 (June), illus. A geological discussion of Kilauea.

Christensen, Carl

1925 Revised list of Hawaiian pteridophyta. Bernice P. Bishop Mus., bul. 25, 30 pp., bibliog.

Many of the plants described are in the park area.

Clark, Wm. O. See: Stearns, Harold T. 1930.

Clarke, F. L.

1889 Hale-a-ka-la. "The house of the sun." Overland mo., 2d ser., 13:480-4 (May).

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Clarke, F. L., continued.

Account of a visit by a party of tourists to Haleakala crater.

Clemens, Mildred L.

1917 Trailing Mark Twain through Hawaii. Sunset, 38:7-9, 95-98, illus.

Reminiscences of Mark Twain's first visit to the Hawaiian Islands. The writer, in a few hours of easy riding, completed tours on which the other Clemens spent days on muleback. Kilauea was again in eruptive mood, as when the great humorist witnessed its spectacular display. The trip out of the Kaupo gap and along the scenic ditch trail on Haleakala is recommended to tourists.

Cleveland, Lue S.

1902 Madam Pelee in Hawaii. Overland mo., 2d ser., 40:396-401 (Oct.), illus.

A brief sketch of volcanic activity on the islands of Maui, and Hawaii, with an account of the native legend of "Madam Pelee."

Closson, Mabel H.

1892 Pele's last appearance. Overland mo., 2d ser., 19:318-27 (Mar.).

A legendary tale of Hawaii.

1893 A dead volcano. Overland mo., 2d ser., 21:236-41 (Mar.), illus.

An article describing Haleakala, the largest extinct volcano.

Clutterbuck, Reginald M.

1919 The "Eighth wonder." Mid-Pacific mag., 18:161-4 (Aug.), illus.

Description of the crater of Kilauea.

Coan, F. See: Coan, Titus. 1852.

Coan, T. See: Lyman, Chester S. 1851.

Coan, Titus

1852 On the eruption of Mauna Loa in 1851. Am. jour. sci. and arts, 2d ser., 13:395-7 (May).

1852a On the eruption of Mauna Loa, Hawaii, February, 1852. Am. jour. sci. and arts, 2d ser., 14:219-24 (Sept.)

A detailed description of the eruption of Mauna Loa, occurring between February 17 and 26, 1852. The eruption commenced on the very summit of the mountain, but the "lateral pressure of the emboweled lava" was so great that it forced itself out at a weak point on the side of the mountain. From the throat of the cone vast

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and continuous jets of red-hot lava were ejected with a deafening noise heard along the shores of Hilo.

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- 1853 Notes on Hilauea and the recent eruption of Mauna Loa. Am. jour. sci. and arts, 2d ser., 15:63-5 (Jan.).
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- 1854 On the present condition of the crater of Kilauea, Hawaii. Am. jour. sci. and arts, 2d ser., 18:96-8 (July).
-
- 1856 On Kilauea. Am. jour. sci. and arts, 2d ser., 21:100-2 (Jan.).
A letter from Hilo, Hawaii, dated July 18, 1855, giving an account of Kilauea in action in 1855.
-
- 1856a On the eruption at Hawaii. Am. jour. sci. and arts, 2d ser., 22:240-3 (Nov.).
Excerpts from a letter in which the writer gives his observations of the continuous lava flow in the forests of Hilo. "Lava flows at any depth, or any angle, and at any rate of progress from 20 feet an hour to 40 miles."
-
- 1856a On the volcanic eruptions in Hawaii. Geol. Soc. London, Quart. jour., vol. 3, pt. 1, pp. 170-6.
A resume of the eruptions of the volcanoes of Mauna Loa and Kilauea, 1840-55, including a detailed report of a trip to the crest of Mauna Loa.
-
- 1857 Volcanic action on Hawaii. Am. jour. sci. and arts, 2d ser., 23:435-7 (May).
A detailed description of the volcanoes, their eruptions, the cause, and the rock and lava formations.
-
- 1863 On the present condition of the crater of Kilauea on the island of Hawaii. Am. jour. sci. and arts, 2d ser., 35:296 (Mar.).
-
- 1865 Volcano of Kilauea. Am. jour. sci. and arts, 2d ser., 40:122 (July).
An article reprinted from the Honolulu Commercial Advertiser, describing the volcanic activity of Kilauea.
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- 1867 Volcanic eruptions in Hawaii. Am. jour. sci. and arts, 2d ser., 43:264-5 (Mar.).
An excerpt from a letter dated August 31, 1866, describing recent violent activity of Kilauea and the many changes in the crater since 1840.
-
- 1869 Notes on the recent volcanic disturbances of Hawaii. Am. jour. sci. and arts, 2d ser., 47:89-98 (Jan.).

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Coan, Titus, continued.

Notes on a tour of Puna and Kau after the volcanic disturbance of Mauna Loa and Kilauea in 1868. The whole coast line appeared to have undergone a subsidence of unequal depth, measuring seven feet at Kau. Much property had been destroyed.

1871 An island on fire. Scribner's mo., 2:561-73 (Oct.), illus.
A resident of Hilo for 18 years, whose home was often threatened by volcanic fire, graphically describes the great eruption of 1855 in the region of Kilauea and Mauna Loa, and the devastating progress of the fire as it spread towards the sea.

1871a On Kilauea and Mauna Loa. Am. jour. sci. and arts, 3d ser., 2:454-6 (Dec.).
Results of the writer's study of the lava lake of Halemaumau.

1872 Recent eruption of Mauna Loa. Am. jour. sci. and arts, 3d ser., 4:406-7 (Nov.).
Information from a letter dated August 27, 1872, giving an account of the writer's observation of the volcanic activity of Mauna Loa.

1873 Going to the volcano. Aldine, 5:245-6 (Dec.).
An account of the trip to the crater of Kilauea.

1874 Note on the Hawaiian volcanoes. Am. jour. sci. and arts, 3d ser., 7:467.
A report on the activity of Kilauea and Mauna Loa in 1874.

1877 Volcanic eruptions on Hawaii. Am. jour. sci. and arts, 3d ser., 14:68-9 (July).
Description of the activity of Mauna Loa in January, 1879, and a comparison of its illumination with that during eruptions in 1873-6.

1880 Recent action of Mauna Loa and Kilauea. Am. jour. sci., 3d ser., 20:71-2 (July).

1910 Eruptions of Kilauea in July, 1855. Sci., n.s., 32:716-8 (Nov.).
Discussion and correspondence on Kilauea and Mauna Loa.

Coan, T., and Coan, F.

1852 Eruption from the summit of Mauna Loa, Hawaii. Am. jour. sci. and arts, 2d ser., 14:105-7.

The eruption of Mauna Loa in February 1852 is described. The side of the mountain opened about midway down the dome and the lava poured out toward Hilo. The eruption ceased when the stream

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had reached within seven miles of the city. The light at night was brilliant, and in Hilo it was almost as light as day.

Coan, T., and Gulic, O. H.

1864 Volcano of Kilauea, Hawaii. Am. jour. sci. and arts, 2d ser., 37:415-7 (May).

A description of Kilauea and its activities in 1863, particularly the several newly-active cones, the lava lake, changes in the formations of the rim and crater, the crater bed, the great lake in the side of the crater as it was in 1846 and in 1863, and the ever-changing scenes and unearthly noises during the activity.

Coffin, Harold

1934 The road to the house of the sun. Am. civic ann., 5:44-6.
Description of the 10-mile road now under construction to the rim of the dormant crater of Haleakala.

Colby, Frank M., ed.

1922 Volcanoes, Hawaii. The new international year book (1921), p. 736.

Report of the observations of the Hawaii Volcano Observatory concerning the lava levels of Halemaunau during the past year. Notes on volcanic districts throughout the world are included.

Colum, Padraic

1923 A visit to Madame Pele. The Freeman, 8:36 (Sept. 19).
In an account of a visit to Madame Pele, the author relates the myth of the fire goddess of Kilavea.

1924 At the gateways of the day. 217 pp., illus. New Haven, Yale Univ. Press.
Hawaiian legends.

1925 The bright islands. 233 pp., illus. New Haven, Yale Univ. Press.
Hawaiian legends.

Corey, E. A.

1923 Hiking in Hawaii—easy and otherwise. Mid-Pacific mag., n.s., 26:547-54 (Dec.), illus.

A description of a hike to the top of Mauna Kea (13,825 feet), the highest island peak in the world. It is about 20 miles from the park boundaries.

Coulter, John W.

1931³ Hawaii. Jour. of geog., 38:26-33 (Sept.), illus.
Contains notes on the climate around Mauna Loa.

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1932 The eruption of Kilauea, December 23, 1931. Geog. soc. Phila., bul., 30:195-199 (Oct.).

A trip to the crater noting along the way the natural and historical points of interest, and a description of the appearance of Kilauea in eruption. Its activity ended January 5, 1932. No loss of life or property was reported.

Crampton, Henry E.

1910 The active volcanoes of the South Seas. Am. Mus. jour., 10:171-80 (Oct.), illus.

Descriptive information about Mauna Loa and Kilauea.

Crane, Ezra

1932 The world's first broadcast of a live volcano. Mid-Pacific mag., 43:303-8 (Mar.), illus.

Radio broadcast from the rim of Halemaumau, describing the activity of the seething lava lake.

Cross, Whitman, and others

1920 The Kilauea Volcano Observatory. Natl. Acad. Sci., Proc., 6:706-16 (Dec. 15).

A report of a committee of the National Academy of Sciences, prepared at the request of the Secretary of Agriculture, on the occasion of the taking over by the Department of the Weather Bureau of the observation work hitherto conducted by the Hawaiian Volcano Research Association. The report covers the scientific questions involved and offers full cooperation of the National Academy and its scientists. The committee welcomed the transfer, for the Government was able to finance extension of the scope of the observations in seismology and volcanism, and to insure a necessary continuity of the records.

Cumming, C. F. Gordon

1881 The greatest active volcano. Scribner's mo., 21:926-36 (Ap.), illus.

A collection of notes from Titus Coan, W. T. Brigham, and other travelers in the Hawaiian Islands. These notes mark the yearly changes which have occurred within the crater of Kilauea, as well as the principal events which form the history of its volcanic action in recent times.

1883 Fire fountains, the kingdom of Hawaii. 2 vols., 297 and 279 pp., map, illus. London, Blackwood.
Hawaii's volcanoes; mythology; the history of its missions.

Curtis, George C.

1913 Work going on at Kilauea volcano. Sci., n.s., 35:355-8 (Sept. 12).

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A scientific article dealing with the dropping of the level of the bottom of Halemaumau.

1915 Kilauea, a drop-fault crater. Geol. Soc. Am., bul., 26:77, 375.

Curtis, M. M.

1919 Ancient Hawaiian theories as to the nature and origin of things. Hawaiian almanac and ann., 45:79-93.
Some of the myths relate to the volcanoes of the park area.

Daggett, R. M.

1888 The legends and myths of Hawaii. 530 pp., illus. New York, Webster.

Daingerfield, Lawrence H.

1919 Some phases of Hawaiian climate. Hawaiian ann., 1920, pp. 43-8. Honolulu, Thrum.

1920 The climate of Hawaii. Mid-Pacific mag., 20:473-6 (Nov.), 529-35 (Dec.), illus.
Discussion of rainfall in the Hawaiian Islands, with a table of annual precipitation by zones.

1927 The effect of climate on the food problems of the people of the Pacific. Mid-Pacific mag., 34:343-6 (Oct.), illus.
The effect of topography on climate.

1929 Geography of the island of Maui. Mid-Pacific mag., 37: 57-64 (Jan.), illus.

Daly, Reginald A.

1910 Hawaiian volcanoes. Geol. Soc. of Am., bul., 21:767.

1911 Magmatic differentiation in Hawaii. Jour. geol., 19:289-316 (May-June).

Record of facts obtained in a reconnaissance in 1909, including special petrography; porphyritic gabbro of the Uwekahuna laccolith; ultra-femic olivine basalt flow of 1852; andesitic basalt; trachydolerite of summit flows; chertolitic nodules in the summit lavas of Mauna Kea; notes on other lava flows, studied microscopically; projected blocks at Kilauea and Hualalai; average composition of Hawaiian basalt; theoretical considerations; origin of the ultra-femic types; origin of the less femic types and parallel differentiation in other oceanic islands.

1911a The nature of volcanic action. Am. Acad. Arts and Sci., Proc., 47:45-122 (May), illus.

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Daly, Reginald A., continued.

Although many theories have been written on this subject, geologists are still looking for an acceptable solution. There are several divergent views. While the time-honored view is still held that water is an essential condition of all volcanism, the dry or nearly dry emanation of Kilauea is accepted by others as proof to the contrary. Structural and dynamic phases are examined and a theory advanced under the name "substratum-injection hypothesis, the rise of basaltic magma from the universal substratum along abysmal fissures in the earth's acid shell."

1918 Thirteen-foot model of the world's most active volcano. Scientific Am., 118:132-8 (Feb. 9), illus.

The Harvard University museum has recently acquired a superb relief which portrays the Kilauea district. It is a faithful reproduction on a scale of 1:1500, is 13 feet in diameter, and represents an area of 15 square miles. A painted panorama surrounding the model shows the snow-covered Mauna Kea, the sombre dome of Mauna Loa, and the ocean. Important localities are indicated in the accompanying photographs.

1926 Volcanic action. In his: Our mobile earth, 128-69, illus., map. New York, Scribner's.

A study of volcanic action, containing special reference to the volcanoes of the Hawaiian Islands.

Dana, Edward S.

1899 Contributions to the petrography of the Sandwich Islands. Am. jour. sci., 3d ser. 37:441-67 (June), art. 45.

The main points of this article are: the characters of the clinkstone-like basalt and the heavy chrysolitic basalt, each from the crater summit; the similarity between the lavas of Mauna Loa and Kilauea and their crystalline character; the structure and origin of the cavern stalactites; and lavas.

Dana, James D.

1850 Historical account of the eruptions on Hawaii. Am. jour. sci. and arts, 2d ser., 9:347-64 (May), illus.

A detailed topographical description of the volcanoes of Hawaii, with accounts of their eruptions 1789-1850. The author estimates the amount of the lava flows, and describes topographical changes in the mountains and plains resulting from the eruptions and flows.

1850a On the volcanic eruptions of Hawaii. Am. jour. sci. and arts., 2d ser., 10:235-44 (Nov.), illus., bibliog.

Description of the summit eruptions of Mount Loa, and eruptions of Kilauea.

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- 1856 Art. XXVIII. On volcanic action at Mauna Loa. Am. jour. sci., 2d ser., 21:241-4 (Mar.).
An account of an eruption of Mauna Loa.

- 1859 Eruption of Mauna Loa, Hawaii. Am. jour. sci. and arts, 2d ser., 27:410-15 (May), map.
A description of the eruption of January 23, 1859.

- 1868 Recent eruption of Mauna Loa and Kilauea, Hawaii. Am. jour. sci. and arts, 2d ser., 46:105-23 (July).
Sympathetic action between Mauna Loa and Kilauea was distinctly marked throughout the eruption of 1868, which was accompanied by almost continuous earthquake shocks. A detailed description of the effects of the eruption, with possible causes, is given.

- 1887 History of the changes in the Mount Loa craters, on Hawaii. Am. jour. sci., 3d ser., 33:433-51 (June).
A history of the phases of Kilauea 1823-1840. Accounts of eruptions in 1824, 1832, and 1840 are carefully compared.

- 1887a Volcanic action. Am. jour. sci., 3d ser., 33:102-15 (Feb.), illus.
A review of volcanic action and phenomena, especially a recent eruption of Kilauea.

- 1889 Points in the geological history of the islands of Maui and Oahu. Am. jour. sci., 3d ser., 37:81-103 (Feb.).
The topics discussed are: the conditions of extinct volcanoes in different stages of diminution; the origin of long lines of precipices gashing the mountains; the extent and condition of one of the largest craters at the period of extinction; the relation of cinder and tufa cones to the parent volcano.

- 1889a Recent observations of F. S. Dodge, of the Hawaiian Government Survey, on Halema'uma'u and its debris-cone. Am. jour. sci., 3d ser., 37:48-50 (Jan.), illus.
The author presents reasons to support his conclusions that the debris-cone in the crater of Kilauea is gradually floating upward on the column of lavas beneath the floor of the basin.

- 1891 Characteristics of volcanoes, with contributions of facts and principles from the Hawaiian Islands. 392 pp., illus., index. New York, Dodd, Mead.
Historical review of Hawaiian volcanic action for 67 years prior to 1891; relations of volcanic to deep-sea topography; volcanic island denudation; eruptive activity and other characteristics of Kilauea and Mauna Loa, on the island of Hawaii, and of Haleakala and other volcanoes of the group.

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- Dana, James D., and others
1852 Note on the eruption of Mauna Loa. Am. jour. sci. and arts,
2d ser., 14:254-9 (Sept.).
- Dauberg, Charles
1847 [Hawaiian volcanoes.] In his: A description of active and
extinct volcanoes....., pp. 421-4. London, Richard and John
E. Taylor.
- Day, Arthur L.
1915 The volcano Kilauea in action. Wash. Acad. Sci., jour., 5:
553 (Mar.),
Hazardous trip to the crater and study of volcanic activity.

1917 Study of the recent activity of Mauna Loa. Geol. Soc. Am.,
bul., 28:127 (Mar.).
This abstract notes that the violent eruption of Mauna Loa in
December and January 1914-15, was accompanied by a lava flow and is-
suanee of an enormous volume of gas.

1925 Gases in volcanic activity. Wash. Acad. Sci., jour., 15:
415-6 (Nov. 4).
Studies in volcanology tending to show that the fluidity of
molten rock is increased when gases are present, and a loss of fluid-
ity occurs after the gases have escaped. These studies show that the
size of the vent at Kilauea increased ten times during the explosive
eruption of May, 1924.
- Day, Arthur L., and Shepherd, E. S.
1913 Water and the magmatic gases. Wash. Acad. Sci., jour., 3:
457-63 (Nov.).
Preliminary report of a study of volcanic gases obtained from
Kilauea crater in 1912. The character and effects of chemical reac-
tions involved in volcanic activity were investigated. Analysis dis-
closed a group of gases which would react upon each other, with conse-
quent generation of heat the moment they escaped from the lava. Thus,
the lava temperature rises when the quantity of gas given off is large.
Evidence is advanced to show that water found in the collecting tubes
could not have been transmitted into the lava from the atmosphere, but
originated directly in the erupted magma.
- Degener, Otto
1930 Illustrated guide to the more common or noteworthy ferns and
flowering plants of Hawaii National Park, with descriptions
of ancient Hawaiian customs, and an introduction to the geo-
logic history of the islands. 312 pp., illus., maps. Hon-
olulu, Honolulu Star Bulletin,
Contains a description of plant species found in the park area.

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Dodge, Frank S.

1887 Survey of Kilauea in the last week of September and the first week in October, 1886. Am. jour. sci., 3d ser., 33: 98-101 (Feb.), illus.

Report of a study of the crater and vicinity, made under the direction of the Bureau of Surveying.

1893 Kilauea in August, 1892. Am. jour. sci., 3d ser., 45:241-6 (Jan.-June), illus.

Report of surveys made in the Kilauea area in 1892 by Prof. Frank S. Dodge of the Hawaiian Government Survey, to determine the change that had taken place since the last survey in 1888.

Dodge, Rowland B.

1914 Up Haleakala. Mid-Pacific mag., 8:217-9 (Sept.), illus.
An account of an excursion to the top of Haleakala.

1917 Haleakala, the world-wonder. Mid-Pacific mag., 13:342-5 (Ap.), illus.

The impressions of visitors to the world's greatest extinct volcano are given; picturesque description.

Doerr, John E., Jr. See: Brumaghim, E. 1931.

Doerr, John E., Jr.

1932 Exploring the devil's throat. Hawaii nat. notes, 2:23-7 (Mar.-Ap.), illus.

The author describes W. T. Sinclair's descent and exploration of the Devil's Throat, one of the pits in the chain of craters of Kilauea, on June 25, 1923.

1933 Mauna Loa snow. Hawaii nat. notes, 3:8 (Jan.-Feb.).

A park naturalist comments on the length of time during which one can see snow on Mauna Loa from Kilauea.

1933a Tree molds in the Volcano Golf Course. Hawaii Natl. Park nat. notes., 3:3-8 (Jan-Feb.), illus.

A description of the natural hazards on the Volcano Golf Course, which have been created by trees which were burned away by molten lava, resulting in what is known as a tree mold.

1933b Fossil ferns. Hawaii Natl. Park nat. notes, 3:15-16 (Mar.-Ap.), illus.

The discovery of fossil fern impressions imbedded in the lava flow of 1832.

1933c Nene, the Hawaiian goose. Hawaii Natl. Park nat. notes, 3:25-30, 37 (May-June), illus.

TERRITORIAL PARKS AND MONUMENTS

Doerr, John E., Jr., continued.

The park naturalist suggests that Hawaiian geese probably originated from ordinary geese which came to the islands long ago.

1933d Rocks in Hawaii National Park; basalt—a common rock. Hawaii nat. notes, 3:9-11 (Jan.-Feb.).

Discussion of the commoner rocks found in the park: basalt, basalt-porphry, and volcanic glass.

Dole, Sanford B.

1878 List of birds of the Hawaiian Islands. Hawaiian ann., 1879, pp., 41-58.

Du Puy, William A.

1932 Scenic Hawaii. In: Hawaii and its race problem, pp. 37-59, illus. Washington, Govt. print. off.
Descriptions of Kilauea, Mauna Loa, and Haleakala.

Dutton, C. E.

1883 Recent exploration of the volcanic phenomena of the Hawaiian Islands. Am. jour. sci., 3d ser., 25:219-26 (Mar.).

1884 Hawaiian volcanoes. U. S. Geol. Surv., 4th ann. rept., (1882-3), pp. 76-219, illus., maps.

Geography of the Hawaiian Islands, account of a journey to Kilauea, description of Kilauea and Mauna Loa, and a study of the volcanic problem.

Ellis, William. See: Goodrich, Joseph. 1826.

Ellis, William

1825 A journal of a tour around Hawaii, the largest of the Sandwich Islands. 264 pp., illus., map. Boston, Crocker and Brewster.

An early survey, containing many references to the flora, fauna, geology, etc., relevant to the present park.

1826 Narrative of a tour through Hawaii, or Owhyee, with remarks on the history, traditions, manners, customs, and language of the inhabitants of the Sandwich Islands. 442 pp., illus., map. London, Ellis.

Early observations on the flora, fauna, and geology of the park area.

Emerson, J. S., and others

1887 Kilauea after the eruption of March, 1886. Am. jour. sci., 3d ser., 33:87-101 (Feb.).

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Emory, Kenneth P.

1921 An archaeological survey of Haleakala. Bernice P. Bishop Mus., occas. papers, 7:237-59, illus., maps.

The author discovered stone structures and human bones scattered over the 15 square miles of crater floor, which indicated that the ancient inhabitants used it as a burial ground.

Faris, John T.

1929 [Hawaii National Park.] In: The Paradise of the Pacific, pp. 259-60, 324-5, New York, Sheldon.
General information and description.

1934 Then there's Hawaii. In his: Roaming American playgrounds, pp. 155-70, illus. New York, Farrar and Rinehart.
A description of Hawaii and the volcanoes.

Farrington, Wallace R.

1931 The land of everlasting fire. Hawaii's national park. Am. forests, 37:144-7, 191 (Mar.), illus.

A description of Kilauea and Mauna Loa and their lava flows. Reference is made to Haleakala, believed to be the largest accessible crater. The results of various scientific explorations are mentioned.

Ferguson, J. B.

1919 The oxidation of lava by steam. Wash. Acad. Sci., jour., 9:539-46.

How the steam oxidizes lava in the Kilauean lava beds.

Ferguson, Melville F.

c1925 A side-trip to Kilauea. In: Motor camping on western trails, pp. 227-42, illus. New York, Century.

Finch, R. H. See: Jaggar, Thomas A. 1924 and 1929.

Finch, R. H.

1924 Seismic sequences of the explosive eruption of Kilauea in May, 1924. Seismological Soc. Am., bul, 14:217-22 (Dec.), illus.

134 years after the explosive eruption of 1790, an explosive phase began in Kilauea. This phase had been predicted to occur in 130 years, or in 1920. The basis for these calculations is explained.

1925 An earthquake prediction at Hawaiian volcano observatory. Sci., n.s., 21:42-3 (Jan. 9).

The possibility of predicting seismic disturbances, and the factors involved in such forecasting. Instances of accurate forecasting by the Hawaiian Volcano Observatory are cited.

TERRITORIAL PARKS AND MONUMENTS

Finch, R. H., continued.

1925a Expedition to Mauna Loa. Hawaiian volcano observatory mo.,
bul., 13:89-91.
Volcanic conditions in December 1925 are noted.

1929 Tilt records for thirteen years at the Hawaiian Volcano Ob-
servatory. Seismol. Soc. Am., bul., 19:38-51 (Mar.). Palo
Alto, Calif., Stanford Univ. Press.

1930 Rainfalls accompanying explosive eruptions of volcanoes. Am.
jour. sci., 5th ser., 19:147-50 (Feb.).
This article is based primarily upon records of the eruption
of Kilauea in 1924. Rainfall did not accompany all the volcanic ex-
plosions.

Flint, F. F., joint author. See: Agar, William M. 1929.

Forbes, Chas. N.

1914 Plant invasion on lava. Mid-Pacific mag., 7:361-5 (Ap.),
illus.
A treatise on vegetative growth in weathered lava, on the
slopes of Mauna Loa.

1912 Preliminary observations concerning the plant invasion on
some of the lava flows of Mauna Loa, Hawaii. Bernice P.
Bishop mus., of occas. papers, 5:15-23 (Dec.).

Forbes-Lindsay, Charles H.

1906 Hawaii. In his: America's insular possessions, 1:243-338,
illus., maps, index. Philadelphia, Winston.

Ford, Alexander H.

1911 Haleakala—the house of the sun god. Mid-Pacific mag., 2:
203-11 (Sept.), illus.

The writer describes the panorama viewed from above the tim-
berline at sunrise and at sunset, the wild cattle that graze on the
upper part of the mountain, and the wild dogs that live in crevasses
and prey upon them.

1912 Some Pacific volcanoes. Mid-Pacific mag., 3:503-15 (June),
illus.
Haleakala and Kilauea are compared with other major volca-
noes of the world.

1920 Following a river of burning lava. Mid-Pacific mag., 19:
75-9 (Jan.), illus.

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An account of the volcanic eruption of Mauna Loa, comparing it with eruptions in other parts of the world.

Ford, John A.

1923 Making friends with a volcano. Outlook, 133:841-3 (May), illus.

An account of an interview with Prof. T. A. Jaggar of the Hawaii Volcano Research Association. Professor Jaggar, who resides on the rim of Kilauea, describes the research work being done in the crater, and the eruption of Mauna Loa in 1923.

Franck, Harry A.

1937 Roaming in Hawaii. New York, Stokes, 349 pp., illus., map.

An extended account is given of the scenic attractions, volcanic formations, and life of the people in the area embraced by the Hawaii National Park. The semi-tropical vegetation of the region and purely Hawaiian flora of Kilauea crater are described. The volcanoes of Mauna Loa and Haleakala are discussed.

Friedlaender, Immanuel

1931 The present condition and the future of volcanology. Natl. research council, bul. no. 77, pp. 34-48.

Refers to studies made in Hawaii National Park and elsewhere.

Gerkie, James

1914 Cones of liquid lava. In: Mountains, their origin, growth and decay, pp. 16-18.

Geological description of the volcanic cones of the Hawaii National Park.

Gilman, Gorham D.

1903 An extract from a journal written by Gorham Gilman in his youth, entitled, "Rustications on Kauai and Niihau, in the summer of 1845." Hawaiian Hist. Soc., 15th ann. rept. (1907), pp. 52-5.

Relates to a myth of Pele, the fire goddess of Kilauea.

Goodhue, E. S.

1913 Sleeping volcanoes. Mid-Pacific mag., 5:589-91 (June), illus.

Geologists believe the crater of extinct Haleakala was caused by a sinking of the mountain's summit. There is no recorded activity of Mauna Kea, although cinder cones are found.

1917 Around Maui in patches. Mid-Pacific mag., 13:92-6 (Jan.), illus.

Account of a horseback trip to the northern side of the huge extinct crater of Haleakala.

TERRITORIAL PARKS AND MONUMENTS

- Goodrich, Joseph
1826 Notice of the volcanic character of the island of Hawaii. Am. jour. sci. and arts, 11:1-36 (Oct.).
An early account of the Hawaiian Islands and their volcanoes.
-
- 1934 Notices of some of the volcanoes and volcanic phenomena of Hawaii, (Owyhee), and other islands in that group, in a letter from Mr. Joseph Goodrich, missionary, dated November 17, 1832. Am. jour. sci. and arts, 25:199-203.
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- 1914 Mountains and volcanoes. In: The coming Hawaii. Pp. 239-49, illus. Chicago, McClurg.
The island of Hawaii, according to geologists, was formed by five different volcanoes which rose from the bottom of the sea. The boiling lava, flowing together, built up the mass culminating in Mauna Kea, by far the highest point in the Pacific Ocean.
- Goodrich, Joseph, and Ellis, William
1826 Volcanic character of the island of Hawaii. Am. jour. sci., 11:2-26, 362-76 (Oct.).
An early account of Mauna Loa and Kilauea.
- Goodrich, Joseph, and Stewart, Charles
1833 Hawaii and its volcanic regions. Am. jour. sci., 1st ser., 20:228-48; 25:199-203.
- Gordon-Cummings, C. F.
1883 Fire fountains. Saturday rev., 55:410-11 (Mar. 31).
Impressions of Kilauea, first when inactive, later when in full activity.
- Green, L. C., and Beckwith, M. W.
1926 Hawaiian customs and beliefs relating to sickness and death. Am. anthropologist, 28:185 (Jan.-Mar.), index.
- Griffin, A. P. C.
1898 List of books relating to Hawaii. 26 pp. Washington, Govt. print. off.
References from the Library of Congress. An introduction summarizes the bibliography of the geographical and scientific explorations.
- Griffiss, Townsend
1930 When you go to Hawaii you will need this guide to the islands. 320 pp., illus., maps, index. Boston, Houghton Mifflin.
This volume includes chapters on the Hawaiian volcanoes and

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national park, Halemaumau, Mauna Loa, the legend of the goddess Pele, and a brief mention of the work of Dr. T. A. Jaggar.

Grosvenor, Gilbert

1924 The Hawaiian Islands, America's strongest outpost of defense; the volcanic and floral wonderland of the world. Natl. geog. mag., 45:115-123 (Feb.), illus., maps, index. Information and description.

1927 The Hawaiian Islands. Natl. geog. mag., 45:115-238 (Feb.), illus., map.
Contains well-illustrated material on the volcanoes and other park features.

Grosvenor, Gilbert, and others (photographers)

1924 Colorful wonders of the Hawaiian Islands. Natl. geog. mag., 45: 191-206 (Feb.), color plates.
Nine of these plates picture various aspects of the fiery lakes of lava in the pits of Kilauea, Mauna Loa, and Haleakala.

Grover, Nathan C., and Carson, Max H.

1933 Surface water supply of Hawaii. Dept. Int., Geol. Surv., water supply pap. 710 (July 1), 1929 (June 30), 1930, 101 pp., index.

This volume contains the results of measurements of the flow of streams and ditches in the Territory of Hawaii, made by the U. S. Geological Survey, in cooperation with the Territory of Hawaii, during the year ending June, 1930. The data presented comprise, for each gauging station, a description of the station, a table showing the daily discharge of the stream, and a table of monthly and yearly discharge and run-off.

Gulick, O. H. See: Coan, Titus. 1864.

Halton, Fred J.

1918 Pele's pilgrimage. Mid-Pacific mag., 15:371-3 (Ap.), illus.
A legendary account of the journeys of the goddess Pele through the archipelago.

Hamilton, E. J.

1903 Haleakala, "house of the sun." Overland mo., 2d ser., 42: 241-6 (Sept.), illus.

An account of a trip to the summit of Haleakala. The approach is made through woodland inhabited by wild boars, which, like the range bulls of the same mountainside, sometimes molest the traveler. Wild dogs, also dangerous, frequent the crater.

TERRITORIAL PARKS AND MONUMENTS

Haskell, Robert C.

1859 Eruption of Mauna Loa, Sandwich Islands. Am. jour. sci. and arts, 2d ser., 28:284 (Sept.).

Discussion of the source of the lava flow in the eruption of January, 1859, and the crack in the side of Mauna Loa.

1859a A visit to the recent eruption of Mauna Loa, Hawaii. Am. jour. sci. and arts, 2d ser., 28:66-71 (July).

A description of the eruption (January, 1859), giving dimensions of the crater and movements of the jet. The gases, lava streams, formation of the three craters, formation of solid lava and clinkers, and hydraulic pressure as a part of the force impelling the lava are discussed. The internal structure of Mauna Loa and the possibility of a fissure are noted.

Hawkes, Ellison

c1935 The volcanoes of Hawaii. In: The book of natural wonders, pp. 164-170, map. New York, Loring and Mussey.

Heck, Commener N. H.

1927 Recording earthquakes and the earth's magnetism in the Hawaiian Islands. Mid-Pacific mag., 34:45-8 (July), illus.

A report of the work done by the magnetic observatory of the U. S. Coast and Geodetic Survey, located at the University of Hawaii. This work consisted in determining the change in the magnetic declination, and the deviation of the magnetic compass from the true north. Seismographic instruments at Kilauea record the components of earthquake movements.

Hillebrand, W. F.

1888 Flora of the Hawaiian Islands. 673 pp., illus., map. New York, Westermann.

Discussion of about 844 species of phanerogamic plants distributed over 335 genera, and 155 vascular cryptogamic plants distributed over 30 genera, making a total of 999 species and 365 genera.

Hinds, Norman

1925 Geological observations on the island of Maui, Hawaii. Sci., 61:316-8 (Mar. 20).

1926 Fault topography in Hawaii. Geol. Soc. Am., bul., 37:210 (Mar.).

Abstract explaining that the large sinks in the mountains of Hawaii are due to volcanic eruption.

1926a Geomorphology of the island of Maui, Hawaii. Geol. Soc. Am., bul., 37:215-6 (Mar.).

Includes a brief description of Haleakala.

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Hitchcock, A. E.

- 1917 Botanical explorations in the Hawaiian Islands. Smithsn. Instn., misc. coll. (pub. 2438), 66:59-73, illus.

Hitchcock, A. S.

- 1919 Floral aspects of the Hawaiian Islands. Smithsn. Instn., ann. rept. (1917), pp. 449-62, illus.
A general description of the flora of the Hawaiian Islands, with particular reference to rare varieties found at Mauna Loa and Haleakala.

- 1922 Grasses of Hawaii. Bernice P. Bishop mus., memoirs, 8:101-5. Honolulu, Bernice P. Museum Press.
Description of the agricultural grasses that grow in the lowlands between Mauna Kea and Mauna Loa.

Hitchcock, C. H.

- 1887 The late eruption from Kilauea. Sci., 9:180-5 (Feb.).
A report of the eruption of Kilauea in 1886, and results of a survey of the fire pit, Halemaumau.

- 1900 Volcanic phenomena on Hawaii. Geol. Soc. Am., bul., 12:45-56, (Dec. 21), illus., map.
A history of the eruption of Mauna Loa in July, 1899; observations by scientists; a description of the lava flows, fissures, atmospheric phenomena, the pit Mokuaweoweo and Mauna Loa dome; and a discussion of volcanic ashes.

- 1903 Mohokea Caldera on Hawaii. Geol. Soc. Am., bul., 14:6-8 (Mar.).
An article describing the formation of the pit craters, or caldera, of Mokuaweoweo, Kilauea, and Haleakala. The location, area, and a detailed description of the Mohokea district is given.

- 1906 Mohokea caldera. Geol. Soc. Am., bul., 17:485-96 (Oct.), illus.
A paper descriptive of this caldera, with specific mention of location and peculiarities of Mohokea; Mohokea compared with Haleakala; phases in the development of Hawaiian calderas; volcanic ash of Hawaii and its source; order of events in the history of Mohokea; eruptions of lava from the lower levels; and Hualalei.

- 1908 News from Kilauea. Sci., n.s., 28:19-20 (July 3).
A report of the eruption of this volcano in May, 1908. It was the most brilliant eruption since 1894, the glare of the molten lava lake being visible at a distance of 35 miles.

- 1912 The Hawaiian earthquakes of 1868. Seismological Soc. Am., bul., 2:181-92 (Sept.), maps.

TERRITORIAL PARKS AND MONUMENTS

Hitchcock, C. H., continued.

Occurring in connection with volcanic eruptions from Mauna Loa and Kilauea, the 1868 shocks were the most notable since 1820. A record, with description of shocks occurring since 1835, is given.

Hittell, John S.

1885 The Hawaiian Islands. In his: Hittell's handbook of Pacific Coast travel. Pp. 209-17. San Francisco, Bancroft. General description.

Hoag, Junius C., and Hoag, Ernest B.

1923 Pele, goddess of Kilauea. Overland mo., 2d ser., 81:26-7, 39 (May); 81:16-7 (June), illus.

A legendary tale portraying Pele as a human being who was overwhelmed by a lava flow, and later seen in the crater of Kilauea riding the sea of lava on her surfboard. Her apotheosis being then complete, a religious belief was built around Pele as a personal diety.

Holmes, E. Burton

1908 The Hawaiian Islands. In: Burton Holmes travelogues, 5:5-112, illus. New York, McClure.

1912 A woman's ascent of Mauna Loa. Mid-Pacific mag., 3:310-17 (Ap.), illus.

The second white woman to successfully climb Mauna Loa, now in Hawaii National Park, describes her experiences.

Iddings, Joseph P

1914 The problem of volcanism. 264 pp., illus., maps, bibliog., index. New Haven, Yale Univ. Press.

A scientific discussion of volcanism in all its phases. Detailed information on eruptions of Mauna Loa and Kilauea.

Ingalls, A. B.

1900 Mauna Loa's eruption of 1899. Hawaiian ann., 26:51-60, illus.

Narrative of a trip from the Kona side of Mauna Loa to view the summit crater of Mokuaweoweo during the eruption of 1899.

Jaggar, T. A.

1915 The diary of Kilauea. Sci. Am., supp., 79:36-7 (Jan. 16), illus.

A brief outline describing the Hawaii Volcano Observatory and the experiments undertaken there.

1918 Results of volcano study in Hawaii. Nat., 101:54-7 (Mar. 21), illus.

HAWAII NATIONAL PARK

A brief review of scientific investigation at the Hawaiian Observatory during the first five years of its existence. The station was founded in 1912 by the Massachusetts Institute of Technology. Among other achievements, the following investigations were made under the direction of the writer: experiments establishing the nature of Hawaiian gases and flames; measurement of the thermal gradient of the liquid lava pool of Halemauau; and seismic indications of volcanic activity at, and in the vicinity of, Kilauea.

1924 Predicting earthquakes. Scribner's mag., 76:370-87 (Oct. 8), illus., maps.

A plea for the establishment of seismological stations at key points throughout the country, with a view toward forecasting major earthquakes, in order to minimize damage. The lava measurements at Hawaii, covering tides and cycles, are cited.

1925 Plus and minus volcanicity. Wash. Acad. Sci., jour., 15:416-7 (Nov. 4).

A study of explosive and quiet eruptions, particularly the 1924 explosive eruption of Kilauea.

1925a The Hawaiian volcanoes. Wash. Acad. Sci., jour., 15:304 (July 19).

1926 Discussion of special features. Hawaiian Volcano Observatory, bul., 14:3-4 (Jan.), illus.

An article describing the old ash eruptions in the Kau desert, and the temperature of the Kelanea floor.

1926a The section of volcanology of the U. S. Geological Survey. Sci., n.s., 64:242-4 (Sept. 10).

A report on the establishment of this section, with T. A. Jaggar of the Hawaii Volcano Observatory in charge.

1929 Graded swelling and shrinking of volcanoes. B. P. Bishop mus., Hawaiian Acad. Sci., special pub. 15, pp. 10-11.

Measurements of Kilauea summit in 1912, 1922, and 1926 showed that the summit farthest from the active pit rose two feet between 1912 and 1922. The summit subsided two to nine feet between 1922 and 1926. Kilauea mountain expanded and contracted during the cycle 1913-24. A table shows lava flows from 1792 to 1924.

1930 Hualalai earthquake crisis of 1929. B. P. Bishop mus., Hawaiian Acad. Sci., special pub. 16, pp. 8-9.

A brief account of earthquake shocks in Hawaii during the period from September 21 to October 6, 1929.

1931 The mechanism of volcanoes. Natl. Research Council, bul. 77, pp. 49-71. Washington, Govt. print. off.

TERRITORIAL PARKS AND MONUMENTS

Jaggar. T. A., continued.

A theory of volcanism which hypothesizes a process at work in and under the crust of the earth everywhere, a thermal remnant of a primitive thermal and gas-evolving process which began when the earth separated from the sun. This would mean a rock shell cooling, a tidal mechanism establishing strain cycles in the solidifying crust, and a gas chemistry series of thermal cycles liquefying and frothing the material beneath the crust. A volcanic belt is merely a cracked zone in the primitive crust.

1932 The eruption cycles in Hawaii. Hawaii. Hawaiian ann., 1932, pp. 83-93, illus.

The Hawaii Volcano Observatory reports local earthquakes and lava gushing and repose from 1909 to 1929.

1933 Elevation changes, horizontal shift, and tilt at Kilauea volcano. Wash. Acad. Sci., jour., 23:113-4 (Feb. 15).
A study of the cycle of lava movement from 1913 to 1924.

1918 Volcanoes of the Pacific and some disasters. Mid-Pacific mag., 16:37-41 (July), illus.

Activities of the Hawaiian Volcano Research Association are recorded and it is suggested that the scope of this institution be made world-wide. Various ways in which science forecasts volcanic activity are described.

1920 Seismometric investigation of the Hawaiian lava column. Seismol. Soc. Am., bul., 10:155-275 (Dec.), map.

A statement, with lists and diagrams, of such correlations as are discernible between the rising and falling of magma in the Hawaiian volcanic pipes, and the tiltings, earthquakes, and shocks registered near the summit of the most continuously active of the volcanoes. A number of truths emerged from these comparisons which suggest lines of experimental inquiry that may be applied to other volcanic or neovolcanic districts.

1922 The science of a volcano. Mid-Pacific mag., 24:116-20 (Aug.), illus.

The efforts of the Hawaiian Research Society resulted in the creation of the national park, improvements the rein and scientific explorations of Hawaiian volcanoes.

1924 The borings at Kilauea volcano. Mo. weather rev., 52:146-7 (Mar.).

In the work on Kilauea floor, much was learned about hauling water and drill rigs over lava topography. Nothing of value has been learned of the utilization of Kilauea power.

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Jaggard, T. A., Jr.

1914 The cross of Hawaii. Mid-Pacific mag., 7:533-7 (June), illus., map.

Article explaining the symmetry of formation of the cones of Kilauea, Mauna Loa, Hualalai, and Mauna Kea that resembles a cross, and the history of the formation of this cross.

1915 Activity of Mauna Loa, Hawaii, December-January, 1914-1915. Am. jour. sci., 4th ser., 40:621-39 (Dec.), illus., map.

Notes from records of the Hawaii Volcano Observatory covering the eruption of Mauna Loa from November 25, 1914 to January, 1915. A table recording previous eruptions shows a gradually increasing time interval between eruptions.

1915 Notes from a volcano laboratory.... Kilauea and Mauna Loa. Sci. Am., supp., 80:214-7 (Oct. 2), illus.

This article is composed of personal documents compiled from observations made at the Hawaii Volcano Observatory at Kilauea. It describes the actions of Mauna Loa and Kilauea, and gives scientific data concerning them and other volcanoes.

1917 Live aa lava at Kilauea. Wash. Acad. Sci., jour., 7:241-3 (May 4).

This lava appeared in March in a rise of lava following its complete subsidence from the crater. AA is "a heavy black lava which consists of the usual complete, scoriaceous, vesicular units in the talus, 5 to 30 cm., in diameter, showing no fracture surfaces, and of reddish or greenish brown color." . . . The material is nowhere ropy or membranous like pahoehoe, and has not the slightest resemblance to the crusts and overflows of the lake.

1917 On the terms apherolith and dermolith. Wash. Acad. Sci., jour., 7:277-81 (May 19).

The terms "aa" and Pahoehoe," of Hawaiian origin, descriptive of the two main types of lava, have been to some extent adopted by American geologists. Since English and continental usage varies, considerable confusion has resulted. T. A. Jaggard, Jr., of the Hawaii Volcano Observatory, proposes substituting for "pahoehoe" the term "dermolith" (Greek, skin and stone), to cover all forms of effusive lava manifesting subaerially a surface skin or crust, capable of wrinkling or folding; and for "aa" the term "aphrolith" (Greek, foam and stone), to distinguish effusive lavas which tend on solidification to subdivide superficially into complete irregular lumpy vesicular units. Lava flows on the southern flank of Mauna Loa are cited as illustrating these two types.

1917a Thermal gradient of Kilauea lava lake. Wash. Acad. Sci., jour., 7:397-405 (July 19), illus.

TERRITORIAL PARKS AND MONUMENTS

Jaggar, T. A., Jr., continued.

Experimental temperature measurement, with Seger cones in steel pipes thrust into the lava and flaming cones of the lava pool at the summit, yielded results of increasing accuracy as the method was improved and sources of error or failure were discovered and eliminated. The variations in temperature at different levels above and below the surface lava are discussed. The vertical range extends through four heat zones, from the hottest flame blast of burning gas in a high "blowing cone," downward to the lava lake bottom.

1917b Volcanologic investigations at Kilauea. Am. jour. sci., 4th ser., 44:161-2 (Sept.), art. 16, illus., map.

This investigation of Kilauea was made to record the mechanism of heating, evidences of convection, shallowness of the liquid lava lake, the heat from gas oxidation, differential temperatures, and depths consistency.

1921 Experiences in a volcano observatory. Nat. hist., 21:336-55 (July-Aug.), illus., map.

The author describes activities of Kilauea and Mauna Loa, and relates experiences before and after several eruptions.

1922 The fire pit of Kilauea. Mid-Pacific mag., 23:353-9 (Ap.), illus.

The eruptions of Mauna Loa have had sympathetic action in the pit of Kilauea. In the outburst of 1916 Kilauea lava reached a high level and sank 400 feet in two days when the Mauna Loa eruption ceased. In 1917-21 this action was repeated.

1926 Activity of Mauna Loa, Hawaii Volcano Observatory, mo. bul., 14:24-9 (Ap.), illus.
Records of earthquakes, eruption, and tilting April 10-30, 1926.

Jaggar, T. A., and Finch, R. H.

1924 The explosive eruption of Kilauea in Hawaii, 1924. Am. jour. sci., 5th ser., 8:353-74 (Nov.), illus., map.

A study of the phenomena before and during the great eruption: the increase of seismographic temblors; an extremely sudden change of tilt, registered after 78 earthquakes had been recorded during the month; progressive cracking of the earth along the Kilauea-Puna rift; and sudden entry of Kilauea upon the explosive stage with ejection of great rocks, sand, and ashes, the characteristic cauliflower cloud rising 6000 feet. Excellent illustrations.

1929 Tilt records for thirteen years at the Hawaiian volcano observatory. Seismol. Soc. Am., bul., 19:38-51 (Mar.), illus.
An analysis of seismographic records, discussing tilt and lava

HAWAII NATIONAL PARK

Jaggar, T. A., and Finch, R. N., continued.

level changes, correspondence between easterly tilt and lava gushing and winter atmospheric mean low temperature. Noted at observatory near Kilauea crater.

Jaggar, T. A., and others

1924 The lava tide, seasonal tilt, and the volcanic cycle. *Mo. weather rev.*, 52:142-5 (Mar.), illus.

A study to determine cyclical variations in the lava beds at Kilauea. Liquid lava fluctuations, determined by transit measurements every 20 minutes for a period of a month, were plotted on a graph. "These measurements revealed the extraordinary truth that a systematic tide lifts the lava in Kilauea crater so that the liquid is high in the morning and low in the evening, and the inner floor is high in the night and low in the forenoon." Seasonal tilt, recorded seismographically, showed excessive tilting at Kilauea in a decaying quarterly series of monthly waves. An attempt is made to correlate the nine-year volcanic cycle in Hawaii with lava tides.

Jeffers, LeRoy

1925 A glimpse of the Hawaiian isles from the air. *Mountaineer*, 18:49-51 (Dec.).

Jones, Austin E.

1934 Earthquakes associated with the 1933 eruption of Mauna Loa, Hawaii. *Wash. Acad. Sci., jour.*, pp. 413-8, map.

A study of the relation between volcanic outbreaks and accompanying earthquakes. A series of 77 earthquake locations were recorded during the 11 months preceding the Mauna Loa of December 2, 1933; followed by 19 locations recorded during and after the outbreak. A map gives the epicenter of each earthquake. One-seventh of the located epicenters were under the sea; one-third on the quiescent volcanoes of Hualalalai, Mauna Kea, and Kohala; and the remainder on the active volcanoes of Kilauea and Mauna Loa. A number of earthquakes originated within the craters.

1934a Earthquakes of Hawaii. *Hawaiian Acad. Sci., proc.* (1934). Bernice P. Bishop mus., special pub. 25, pp. 10-11.

About 40 percent of the earthquakes recorded in 1933 at the volcano observatory, Hawaii National Park, have been located. Two-thirds of the epicenters have been located on the active volcanoes of Kilauea and Mauna Loa, and one-third on Hualalalai, Mauna Kea, and Kohala.

1935 Hawaiian travel times. *Seismol. Soc. Am., bul.*, 25:33 (Jan.). Palo Alto, Stanford Univ. Press.

Description of individual epicenters near Kilauea crater.

TERRITORIAL PARKS AND MONUMENTS

Judd, C. S.

- 1919 The kukui or candlenut tree. Hawaiian forester and agriculturist, 16:222-3, illus.
Native of Malaya and Polynesia; found on Kilauea.

- 1921 Kilauea National Park trees. Honolulu, Hawaiian forester and agriculturalist, vol. 18 (Dec.).
Lists the trees found in Hawaii National Park in 1921.

- 1933 Forest notes. Hawaii Natl. Pk. nat. notes, 3:17-18 (Mar.-Ap.), illus.
A territorial forester gives an account of attempts at reforestation and eradication of destructive wild animal life in the territorial reserves.

Keep, Josiah

- 1893 Recent observations at Kilauea. Sci., 21:76 (Sept.).

Kelley, Edward G.

- 1841 Remarks on the geological features of the island of Owyhee or Hawaii, the largest of the group called the Sandwich Islands, with an account of the condition of the volcano of Kirauea [Kilauea], situated in the southern part of the island near the foot of Mouna Roa [Mauna Loa]. Am. jour. sci. and arts, 40:117-22 (Ap.).

Keyes, Mary G. See: Washington, Henry S. 1926.

Kinney, Henry Wolsworth

- 1915 A guide to Kilauea. Mid-Pacific mag., 9:76-80 (Jan.), illus.
A description of the greatest show place of Hawaii.

Kummer, Alfred

- 1915 The caves of Kaumana. Overland mo., 2d ser., 66:428-32 (Nov.), illus.
An account of an exploration of these caves, located about 25 miles northeast of Kilauea. They were formed by contortions of the lava from volcanic eruptions.

Kuykendall, Ralph S.

- 1926 Hawaii National Park. In his: A history of Hawaii, pp. 302-3. New York, Macmillan.

Lane, Dean H.

- 1916 Around the island of Hawaii. Mid-Pacific mag., 11:423-7 (May), illus.
Description of Kilauea and other features of the park.

HAWAII NATIONAL PARK

- Lane, Franlin
1920 Hawaii National Park. Mid-Pacific mag., 19:433-5 (May),
illus.
Discusses, chiefly, the volcanic mountains of the park area.
- Libbey, William
1897 Kilauea, the home of Pele. Harper's new mo. mag., 95:714-
25 (Oct.), illus.
A descriptive account of a trip to Kilauea, in which the
writer comments particularly on the floor, fissures, lava floor,
stalactites, and wall of Kilauea, the largest crater of its type
in the world.
- Libbey, William., Jr.
1894 Gases in Kilauea. Am. jour. sci., 3d ser., 46:371-2 (May).
Observations at Halemaumau revealed bands of bright light,
which proved conclusively the presence of gas burning under pressure.
- London, Charmian K.
1917 Our Hawaii. 345 pp., illus. New York, Macmillan.
Contains much popular descriptive material on the volcanoes
and other aspects of the park area.
- Longwell, C. R., joint author. See: Agar, William M. 1929.
- Lowrey, Vernon
1933 A strange tropical bird in Kilauea crater. Mid-Pacific
mag., 45:343-4 (Ap.), illus.
An account of the white-tailed, web-footed "Koae."
- Lyman, Chester S.
1849 Observations on the "Old Crater" adjoining Kilauea (Hawaii),
on the east. Am. jour. sci. and arts, 2d ser., 7:287
(Mar.).
An excerpt from a letter written from Upper California Jan-
uary 30, 1848, describing the lava bottom of the "Old Crater," which
is separated from Kilauea by an isthmus.

c1850 [Kilauea.] In his: Around the Horn to the Sandwich Is-
lands and California, pp. 61, 113. New Haven, Yale Univ.
Press.
- Lyman, Chesters, and Coan, T.
1851 On recent condition of Kilauea. Am. jour. sci. and arts,
2d ser., 12:75-82 (July).
Comparisons of conditions seen in the volcano of Kilauea,
as witnessed by two missionaries, in 1846 and 1851. Noticeable
changes reported include the filling of the Great Lake, considera-
ble increase of elevation in the vicinity of Halemaumau, and minor
alterations of the crater rim.

TERRITORIAL PARKS AND MONUMENTS

Lyons, A. B.

- 1893 Kilauea in 1889 and in 1892. Hawaiian ann., 1893, pp. 94-105, illus.
The great changes at Kilauea from 1889 to 1892 are described.

Lyons, Curtis J.

- 1893 Features of Hawaiian climate. Hawaiian ann. (1894), pp. 63-70.

- 1899 Sun spots and Hawaiian eruptions. Mo. weather rev., 27:144 (June).

A table is submitted which attempts to show a correlation between minimum sunspot years and years of important lava flows or eruptions.

MacCaughey, Vaughan

- 1912 The kukui forests of Hawaii. Paradise of the Pacific, pp. 21-2 (Jan.), illus.

- 1912a The mountains of Hawaii. Mid-Pacific mag., 3:137-40 (Feb.), illus.

This general account of the formation of the Hawaiian Islands includes the narrative of a trip to the crater of Kilauea.

- 1916 The tree ferns of Hawaii. Am. botanist, 22:1-9 (Jan.).

- 1918 Great lava flows of Mohokea. Mid-Pacific mag., 15:383-5 (Ap.), illus.

Description of a lava flow from a crevasse in the upper slope of Mauna Loa.

- 1918a Hoho-Kea. Mid-Pacific mag., 15:259-61 (Mar.), illus.
Account of a trip to Kilauea and Mauna Loa.

- 1919 Activity of Kilauea volcano (Hawaii). Sci., n.s., 49:188-9 (Feb. 21).

Explains how the overflowing lava of Kilauea is following an unusual procedure by throwing up walls which dam the flow and restrict the area covered.

- 1918- History of botanical exploration in Hawaii. Hawaiian for-
1919 ester and agriculturist, vol. 15, pp. 388-396 (Sept. 1918);
pp. 417-29 (Oct. 1918); pp. 508-10 (Dec. 1918); vol. 16, pp.
25-8 (Jan. 1919); pp. 49-54 (Feb. 1919).

McLennan, Margaret

- 1915 An ascent of Haleakala. Mazama, 4:61-5 (Dec.).
An account of an ascent of Haleakala crater.

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Maehara, K.

1926 [Photograph of Kilauea volcano in eruption.] Sunset, 56:7
(Jan.), illus.

Full-page photograph in color of the smoke, dust, and ashes rising from Kilauea during its eruption in May, 1924. A note states that this stupendous column was more than two miles in height.

Mather, Stephen T.

1927 Volcanic phenomena and gorgeous vegetation in Hawaii National Park. School life, 12:116-8 (Feb.), illus.

A vivid description of Kilauea, Mauna Loa, and Haleakala.

Merritt, W. C., and Baker, E. P.

1889 Notes on Mauna Loa in July, 1888. Am. jour. sci., 3d ser., 37:51-3 (Jan.).

Observations on the result of volcanic activity on Mauna Loa.

Merwin, H. E. See: Washington, Henry S., 1922.

Mills, Enos A.

1917 Hawaii National Park. In his: Your national parks, pp. 221-9, illus. Boston, Houghton Mifflin.

General observations about Kilauea, Mauna Loa, and Healeakala.

Mitchell, Guy Elliott

1917 New national parks. Am. rev. of revs., 55:635-40 (June), illus.

Includes a detailed description of the newly-created Hawaii National Park.

Moffett, Cleveland

1915 Into the crater of a volcano [Kilauea.] Century mag., 90: 449-54 (July), illus.

An account of a scientific exploration made in the summer of 1912 by Dr. Arthur Z Day, director of the geophysical laboratory of the Carnegie Institution, and his associate, Dr. E. S. Shepherd, who made several descents into the crater. Their chief purpose was to determine whether water existed within the interior of volcanoes or leaked in from rain or nearby bodies of water. They devised a method for collecting crater gases for analysis. Natural color photographs.

Munro, George C.

1927 What we know of the bird life in Hawaii. Hawaiian forester and agriculturist, 24:117-21 (Oct.).

Newman, E. M.

1917 Hawaiian Islands. Mentor, 5:1-11 (Sept. 1), illus.

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Nickles, John M.

1931- Bibliography of North American geology. U. S. Geol. Surv.,
1932 pub. 858. 300 pp. Washington, Govt. Print. Off.

Includes a listing of works relevant to Hawaii in geology and related subjects.

Nordhoff, Charles

1873 Hawaii-Nei. Harper's new mo. mag., 47:382-402, 544-58
(Sept.), illus., map.

Includes an account of a trip to Kilauea, with a description of the volcano.

Oleson, W. B. See: Stevens, John L. 1894.

Owen, Jean A. (Mrs. Visger)

1898 The story of Hawaii. 219 pp., illus. New York, Harper.
Scattered references to features of the park.

Palmer, Harold S.

1929 A fossil lava tube. Jour. geol., 37:272-4 (Ap-May), illus.
A description of a lava tube found in Hawaii.

1930 Geology of Molokini, with notes on the flora of Molokini by
Edward L. Caum. Bernice P. Bishop mus., vol. 9, no. 1, 18
pp., illus., map.

This report states that the most abundant rock on Molokini is tuff, or cemented and altered volcanic ash. Molokini is a satellite of the great volcano of Haleakala, rather than an independent center of eruption.

1933 The geology of the Hawaiian Islands. In his: Ancient Hawaiian civilization, pp. 291-301.

Palmer, Harold S., and Powers, Howard A.

1935 Pits in coastal pahoehoe lavas controlled by gas bubbles.
Jour. geol., 43:639-43 (Aug.-Sept.), illus.

The origin of pitted lavas in certain coastal flows of Hawaii is attributed to the enlargement by etching and perhaps by abrasion of gas bubbles.

Perret, Frank A.

1911 Volcanic observances at Kilauea inaugurated. Hawaiian almanac and ann., 1912, pp. 164-175.

Observations over a period of three months at Halemaumau, fire pit of Kilauea. Visual and photographic observations were initiated for a study of phenomena of the lava lake, the flames, circulation of the lava, formation of grottoes, and the mechanism of the lava foundations.

HAWAII NATIONAL PARK

Perret, Frank A.

1913 The circulatory system in the Halemaumau lava lake during the summer of 1911. Am. jour. sci., 4th ser., 35:337-49 (Ap.), illus.

A study of the powerful system of circulation that stirs the entire mass, impedes deposition upon the walls, and prevents the formation, for any length of time, of a thick immovable crust upon the surface.

1913a The floating islands of Halemaumau. Am. jour. sci., ser. 4, 35:273-82, illus.

Description and explanation of the islands floating on the surface of the lava lake in the fire pit of Kilauea. Two types of island are described: one formed by the falling of a mass of stratified rock from the walls of the fire pit, another by the buoying up of a mass of cooled lava by volcanic gas bubbles.

1913b The lava fountains of Kilauea. Am. jour. sci., 4th ser., 35:139-48 (Feb.), illus.

Description and explanation of these fountains playing over the surface of the lava lake of the fire pit (Halemaumau) of Kilauea. The writer describes three phases of the lava fountains, designated as the spatter, dome, and subsidence phases, pictures of which are shown.

1913c The lava fountains of Kilauea. Observations by telephotography. Sci. Am., supp., 75:332-3 (May 24), illus.

The molten lava of the lake of Halemaumau in Kilauea is kept in motion by the continual rising of gas bubbles, which cause "lava fountains." The gases ignite on the surface, forming the "flames of the boiling pit."

1913d Some Kilauea ejectments. Am. jour. sci., 4th ser., 35: 611-18 (June), illus.

Study of the character of materials thrown out at various times by Kilauea volcano in Hawaii National Park. This study indicates that not all Kilauea eruptions have been nonexplosive. The illustrations show the ash and lava strata, spherical pisolites imbedded in massive ash, and angular, elliptical, and turtleback bombs.

1913e Some Kilauea formations. Am. jour. sci., 4th ser., 36: 151-9, illus.

The crater floor of Kilauea is composed chiefly of lava flows. A stagnant lava pool solidifies into a rock mass, but a flowing stream drains away after the solidification of surface layers, leaving an arched tunnel. Gases from the inner flowing lava may form chambers along the line of flow. Lava flows outside the

TERRITORIAL PARKS AND MONUMENTS

Perret, Frank A., continued.

crater have produced formations known as "tree molds," which take their form from trees or other objects invested with this flowing lava.

1913f Subsidence phenomena at Kilauea in the summer of 1911. Am. jour. sci., 4th ser., 35:469-76 (May), illus.

An account of various phenomena which occur when the lava column in Kilauea begins to subside after reaching its "high." A graph shows variations in the height of the lava columns during a three-months' period.

1913g Volcanic research at Kilauea in the summer of 1911, with a report by Dr. Albert Brun on the material taken directly from "Old Faithful." Am. jour. sci., 4th ser., 36:475-88, illus.

Under the auspices of the Massachusetts Institute of Technology, the author and assistants erected an apparatus for the purpose of obtaining temperature measurements of lava from the Halemau-mau crater on Kilauea. Cables were stretched across the crater and vessels dipped into the lava at the crater's center. Specimens of the lava were analyzed by Dr. Albert Brun, whose chemical report is included.

Peters, Woods

1917 Awheel through Hawaii. Mid-Pacific mag., 13:527-35 (June), illus.

Contains a picturesque description of a trip to Kilauea.

Phillips, A. H.

1894 A recent analysis of Pele's hair and a stalagmite from the lava caves of Kilauea. Am. jour. sci., 3d ser., 47:473-4 (June).

Pickering, William H.

1908 Lunar and Hawaiian physical features compared. Am. Acad. Arts and Sci., memoirs, 2d ser., 13:151-78, illus.

Physical characteristics of the volcanoes in Hawaii National Park are described, and similarities between their surface features and those of the moon are noted.

Pope, Katherine

cl924 Hawaii National Park. In: Hawaii, the rainbow land, pp. 337-49, illus. New York, Thomas Y. Crowell.

Describes the beauty and wonder of the national park, especially Haleakala, Mauna Loa, and Kilauea.

HAWAII NATIONAL PARK

Pope, Willis T.

- 1929 Manual of wayside plants of Hawaii. Honolulu, Advertiser pub. co.

Powers, Sidney

- 1915 Hawaii's great volcanoes and the study of them. Am. Geog. Soc., bul., 47:577-83, illus.

The vertical movement of lava within the pit of Kilauea appears to be controlled in part by the pull of the sun and moon, as well as by the physical and chemical forces within the lava and the magma chamber below. The daily observation routine maintained by the Massachusetts Institute of Technology is given.

- 1915a The recent activity of Kilauea and Mauna Loa, Hawaii. Sci., n. s., 42:147-54 (July 30), illus.

A detailed study of the activities of these volcanoes in 1914 and 1915.

- 1916 A goddess and her volcanoes. Mid-Pacific mag., 11:542-5 (June), illus.

The geologic history of the volcanic group, as outlined in a Hawaiian myth.

- 1916 The busiest volcano in the world. Mid-Pacific mag., 12: 55-9 (July), illus.

Descriptive history of the activities of Kilauea.

- 1916b Volcanic domes in the Pacific. Am. jour. sci., 4th ser., 42:261-74 (Sept.).

A scientific treatise on the geology and history of Kilauea.

- 1917 Tectonic lines in the Hawaiian Islands. Geol. Soc. Am., bul., 23:501-14 (Sept.), illus., maps.

A discussion of the age and alignment of various active volcanoes, including Mauna Loa, Kilauea, and Haleakala. The author concludes that no connection exists between the lines of fracture now apparent in the islands and any other tectonic lines.

- 1920 Notes on Hawaiian petrology. Am. jour. sci., 4th ser., 50: 256-80 (Oct.).

A preliminary petrographic study of all the islands of the group. Mauna Loa is being built up by flows from two major lines of weakness. These and other eruptive phenomena are reported.

Powers, Howard A.

- 1935 Differentiation of Hawaiian lavas. Am. jour. sci., 5th ser., 30:57-71 (July), bibliog.

TERRITORIAL PARKS AND MONUMENTS

Powers, Howard A., continued.

Considering the study on crystallization of basaltic magma, the writer cites Barth's contributions to the problem. A classification of Hawaiian lavas was prepared by H. S. Washington. The rocks analyzed and described by him are tabulated to show the distribution of the various types among the several volcanoes.

Pukaua, Keoki

- 1920 Mauna Loa's eruption. Mid-Pacific mag., 20:363-6 (Oct.),
illus.
Vivid description of a tremendous, destructive eruption.

Rae, John

- 1900 Laieikawai: a legend of the Hawaiian Islands. Jour. Am.
folk-lore, 13:241-60 (Oct.-Dec.).

Reat, Ruth

- 1914 One corner of Hilo. Overland mo., 63:486-97 (May), illus.
Descriptive narrative of a trip to Kilauea.

Reeds, Chester A.

- 1929 Belching cauldrons of the earth. Sci. Am., 140:9-13 (Jan.),
illus.
A review of the historic eruptions of Kilauea, with descrip-
tion and explanation of the volcanic action.

Richardson, D. S.

- 1908 Halemaumau, the house of fire. Out west, 29:418-29 (Dec.),
illus.
An extensive and popular description of the great fire pit
in Kilauea crater.

Rock, Joseph F.

- 1911 A synopsis of the Hawaiian flora. Hawaiian almanac and ann.
(1912), pp. 82-91, illus.
-
- 1913 The ferns of Hawaii. The friend, pp. 28-30, 40 (Feb.).
-
- 1921 The Hawaiian sisters. Mauna Loa and Mauna Kea. Mid-Pacific
mag., 21:571-74 (June), illus.

Rodgers, C. T.

- 1922 Volcano days. Mid-Pacific mag., 24:33-36 (July), illus.
Description of Halemaumau.

Sapper, Karl

- 1931 Volcanoes, their activity and their causes. Natl. Research
Council, bul. no. 77, pp. 1-33.

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A discussion of the four types of volcanic activity, abstracted by the author from his book, "Vulkankunde," and translated in English by Arthur L. Day. Observations were made at the Kilauea Observatory.

Sayles, Robert W.

1918 A naturalistic model of Kilauea volcano, Hawaii. Geog. rev., 5:38-43 (Jan.), illus.

A description of a model made from a careful photographic survey, supplemented by elaborate field notes, color sketches, and detailed drawings.

Schnack, Ferdinand J. H.

1915 The Aloha guide; the standard handbook of Honolulu and the Hawaiian Islands; for travelers and residents, with a historical resume. 201 pp., illus., maps, index. Honolulu star bul., Honolulu.

Sedgwick, Thomas T.

1912 The story of taro. Mid-Pacific mag., 3:266-73 (Mar.), illus.

Shepherd, E. S. See: Day, Arthur L. 1913.

Shepherd, E. S.

1925 Notes on the chemical significance of engulfment at Kilauea. Wash. Acad. Sci., jour., 15:418-20 (Nov. 4).

A study of the problem of energy supply at Kilauea, conducted by the geophysical laboratory, Carnegie Institute of Washington. These researches show that the engulfment of vast quantities of rock wall containing ferric iron, and its subsequent reduction to ferrous iron, is capable of raising two million cubic meters of breccia nearly 1200 degrees centigrade. This would be sufficient to maintain the lava lake in a liquid state.

1925 The analysis of gases obtained from volcanoes and from rocks. Jour. geol., 33:289-370 (Ap.-May), supp., pp. 289-370, illus.

Discussion of the development of laboratory methods for the study of gases in volcanoes and volcanic rocks. Experiments carried on at the Hawaiian Volcano Observatory, Kilauea.

Sheridan, S. N.

1912 Following the lava trails in Hawaii. Mid-Pacific mag., 4: 331-5 (Oct.), illus.

An account of a trip over Umi's Trail, in an area now included in Hawaii National Park. Includes a brief history of Umi, who built the road about 1500 A.D.

Sherzer, William H.

1923 Explosive eruptions of Kilauea. Sci., n.s., 57:459-61 (Ap. 20).

TERRITORIAL PARKS AND MONUMENTS

Sherzer, William H., continued.

Causes and effects of these eruptions.

Smith, D. K. W.

1921 Physical characteristics of Hawaii. Mid-Pacific mag., 22: 331-4 (Oct.), illus.

A popular account and enumeration of the geographic features of the Hawaiian Islands.

Stearns, Harold T.

1925 The 1924 eruption of the Hawaiian volcano. Sci. Am., 132: 242-3 (Ap.), illus.

1925a Volcanoes of Hawaii and the Pacific. Mid-Pacific mag., 29: 748-55 (May), illus.

A summary of the geologic history of the Hawaiian Islands. Mauna Loa, Kilauea, and Haleakala were explored, and scientific explanations of the causes of their various constructions are given. This survey will provide the first systematic geologic mapping of Hawaii. The final report will make the first attempt to show the different formations in colors.

1926 The Keaiwa or 1823 lava flow from Kilauea volcano, Hawaii. Jour. geol., 34:336-51 (May-June), illus.

Scientific description of the Keaiwa lava on Kilauea, which is the oldest lava flow recorded by white men in the Hawaiian Islands.

1926a Origin of the volcanoes of Mauna Loa and Kilauea. Geol. Soc. Am., bul., 37:150-1 (Mar. 30). Pan-Am. geol., 45:158 (Mar.).

Abstract concerning the origin and development of Kilauea and Mauna Loa and the geologic history of the district of Kau.

1930 Geology and water resources of the Kau district, Hawaii. U. S. Geol. Surv., water supply pap. 616. 194 pp., illus., maps.

Stevens, John L., and Oleson, W. B.

1894 Volcanoes and lava flows. In: Picturesque Hawaii, pp. 63-78, illus. Philadelphia, Hubbard.

Stewart, Charles. See: Goodrich, Joseph. 1833.

Stewart, Charles

1827 Account of an ascent to the crater of the great volcano of Kirauea. The Edinburgh new philosophical jour., 3:45-60, (Ap.-Oct.).

HAWAII NATIONAL PARK

The author, late missionary at Hawaii, gives the details of an ascent to the crater of Kirauea [Kilauea] in 1825 by Lord Byron and a party of friends. He describes the scenery and the activity of the volcano.

Stewart, Charles S.

1939 Excursion to the volcano of Hawaii. In his: A residence in the Sandwich Islands. Pp. 300-25. Boston, Jordan.

Stoddard, Charles W.

1885 A trip to Hawaii. Pamphlets on travel, vol. 4, no. 7, 48 pp., illus. San Francisco, Oceanic Steamship Co.

An account of a visit in 1885, describing the results of the last lava flow and the appearance of the solidified rock, which almost reached Hilo in the eruption of Mauna Loa in 1880.

Stone, Eliot K.

1910 Madam Pele---at home. Overland mo., 2d ser., 56:156-67 (Aug.), illus.

History, legends, and myths of Mauna Loa and Kilauea.

Stone, John B.

1926 The Keaiwa flow of 1883, Hawaii. Am. jour. sci., 5th ser., 11:434-40 (May), illus., map.

A detailed description and discussion.

1926a The products and structure of Kilauea. Bernice P. Bishop mus., bul. 33, 39 pp., illus. bibliog.

A description of its lava, lava flows, flows in the walls and pit crater, and ejected products. The relation of vegetation to climate, geological history, and comparison with other volcanic regions.

Stone, John F.

1920 The Haleakala hike. Mid-Pacific mag., 20:173-5 (Aug.), illus.

Tallman, Charles F.

1917 Earthquakes and volcanoes. Mentor, 5:1-11 (Sept. 15), illus.

Discussion of the sciences of volcanology and seismology.

Information on Kilauea and Mauna Loa.

1923 Kilauea. Outlook, 135:581-3 (Dec.), illus.

Pictures and description of eruption of Kilauea, March, 1921.

1926 Nature's fiery four hundred. Nature mag., 8:211-4 (Oct.), illus.

The May, 1924 eruption of Kilauea "caused the only fatal accident in the modern history of the Hawaiian volcanoes." Statistics

TERRITORIAL PARKS AND MONUMENTS

Tallman, Charles F., continued.

on the destruction and fatalities caused by the 430 volcanoes of the world are given, with illustrations of Kilauea and Mauna Loa in action. The rise and fall of the tides of lava beneath the earth's crust are described.

Taylor, Frank J. See: Albright, Horace M. 1928.

Taylor, Albert Pierce

1932 Under Hawaiian skies. Honolulu advertiser, 399 pp., illus. Honolulu, Hawaii.

Thayer, George B.

1913 Tramping through a volcano. Mid-Pacific mag., 5:233-9 (Mar.), illus.

1914 A midnight vigil in a volcano. Mid-Pacific mag., 7:267-71 (Mar.), illus.
Description of the lava lake, Halemauau, as seen at night.

Thrum, Thomas G.

1907 Table of volcanic eruptions, island of Hawaii, 1790 to 1907. Hawaiian almanac and ann. (1908), pp. 136-7.
The character, locality, date of eruption, and period of activity are given, with a brief account of damage done.

Thurston, Lorrin A.

1911 The proposed Hawaiian national park. Mid-Pacific mag., 1: 302-32 (Mar.), illus.
Description of the unique features of the area.

1919 Hawaii's new national parks. Mid-Pacific mag., 18:343-4 (Oct.), map.
Popular information and description.

1921 Commercializing the power of Kilauea. Mid-Pacific mag., 22:117-20 (Aug.), illus.
Preliminary studies of the power-producing possibilities of Kilauea, conducted by the Hawaiian Volcano Research Association, financially aided by the territorial legislature. The researches were conducted by Dr. Henry S. Washington and Dr. T. A. Jaggar, and were premised on the success of volcanic power projects at Florence, Italy.

1921a The story of a volcano. Mid-Pacific mag., 21:17-32 (June).
A resume of the history of the volcano, Kilauea, and an

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account of the organization, work, status, and plans of the Hawaiian Volcano Research Association, as given by its director.

1923 Volcanic research in Hawaii. Mid-Pacific mag., 26:424-33 (Nov.), illus., map.

The author deploras the lack of knowledge regarding volcanoes and the cause of earthquakes, and urges support of scientific study of volcanic activity. More seismometers on the island of Hawaii, and more extensive trails in the vicinity of Mauna Loa and Kilauea, are needed. An observatory at the summit crater of Mauna Loa is suggested.

1936 Reminiscences of Hawaiian volcanoes. In: Writings of Lorrin A. Thurston, pp. 58-104, illus. Honolulu advertiser, Honolulu, Hawaii.

Descriptive and informative account of a visit to Kilauea in 1879, and again in 1890.

Tolson, Hillory A., comp.

1933 Laws relating to the National Park Service, the national parks and monuments. 318 pp. Dept. Int., Natl. Park Serv. Washington, Govt. Print. Off.

Includes both Federal and state legislation.

Tompkins, H. J.

1919 Pele's home, Hawaii. Mid-Pacific mag., 17:380-3 (Ap.), illus.

A description of Kilauea volcano in partial activity.

Twain, Mark

1917 Mark Twain on Maui. Mid-Pacific mag., 13:570-3, (June), illus.

An appreciative review of Mark Twain's impressions of Maui and Haleakala, as expressed in his, "Roughing it."

Tyrrell, G. W.

1931 The shield volcanoes of Hawaii and Iceland. In his: Volcanoes, pp. 101-27, illus., map. London, Butterworth.

A description of Mauna Loa and Kilauea.

Visger, Mrs. See: Owen, Jean A. 1898.

Vis-Norton, L. W. de

1916 The suburbs of hell. Mid-Pacific mag., 11:233-9 (Mar.), illus., map.

A description of the country surrounding Halemaumau, the "House of everlasting fire."

1917 Feeling Pele's pulse. Mid-Pacific mag., 13:316-23 (Ap.).

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Vis-Norton, L. W. de, continued.

An account of a trip down the steep walls of Halemaumau, guided by Dr. Jaggard, who found the temperature of the lava to be 2000 degrees.

1917a Hawaii and her volcanoes. Mid-Pacific mag., 14:572-99 (Dec.), illus.

A popular description of the formation of the volcanoes on the Hawaiian Islands. The writer goes into the records of past ages for his general account of the upbuilding of Mauna Loa, Kilauea, and Haleakala, and concludes that Kilauea is a separate mountain of greater age than Mauna Loa. The lava flows of Mauna Loa in 1859 and 1916 are described.

1917b Pele's puna. Mid-Pacific mag., 13:85-7 (Jan.), illus.
Hawaiian myths relating to Kilauea and Halemaumau.

1917c What is a volcanologist? Mid-Pacific mag., 13:277-81 (Mar.), illus.

A day in the life of a volcanologist at Kilauea.

1917d Would you call it advertising? Mid-Pacific mag., 14:37-45 (July), illus.

Contains an account of a trip to Kilauea.

1918 "Inside out" at Kilauea. Mid-Pacific mag., 16:79-81 (July) illus.

Description of Kilauea and its unusual activity of June 1916, an activity occurring at about 65-year intervals.

1920 Kilauea activities in 1919. Hawaiian almanac and ann., pp. 127-31, illus., map.

1922 A goddess in a temper. Luckily goddess Pele loses her temper only every 130 years. Outing, 80:308-9 (Ap.), illus.

An account of Kilauea in fierce activity, observed by the writer at great personal danger.

1922a Pele plays a prank. Mid-Pacific mag., 24:327-9 (Oct.), Sudden succession of activity has so changed surface conditions that the pit is increased to twice its usual size, and only a few familiar points may be recognized on the outer walls.

1927 The Hawaii National Park. Mid-Pacific mag., 33:61-9 (Jan.), illus.

General information and description, primarily for tourists.

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- Vojnich, Oscar
1914 A flying trip to Maui. Mid-Pacific mag., 7:575-9 (June),
illus.
Includes a description of Haleakala.
- Voth, Hazel H., and others
1938 Hawaii National Park. In: Guide to national parks and
monuments west of the Mississippi River, pp. 50-1. Dept.
Int., Natl. Park Serv. Berkeley, Calif.
Species location, area, and date of establishment. Lists
and describes briefly the principal features. Gives historical
data.
- Walker, Jack
1915 Exploring a volcano. Mid-Pacific mag., 9:249-53 (Mar.),
illus.
Description of the Haleakala area.
- Washington, Henry S.
1917 Persistence of vents at Stromboli and its bearing on volca-
nic mechanism. Geol. Soc. Am., bul., 28:249-78, illus.
In this exhaustive paper attention is called to the Kilauea
volcano. Here is another case of the persistence in location of a
vent and conduit in a crater floor for a considerable known period,
nearly one hundred years. It is noteworthy that, though the lavas
at the two volcanoes are chemically very similar, Stromboli and Ki-
lauea are of very different types, both in volcanic form and in mode
of activity.
- 1918 Persistent volcanic vents. Sci. Am., 119:5 (July 6).
Discussion of these vents, with reference to Kilauea.
- 1921 The chemistry of the Pacific volcanoes: the limitations of
our knowledge. First Pan-Pacific scientific conference, Proc.,
special pub., pt. 2, pp. 325-45.
A study of the chemistry of the lavas and other products of
volcanoes, with special reference to Kilauea.
- 1921a Harnessing a volcano. Mid-Pacific mag., 22:353-5 (Oct.),
illus.
A member of the National Research Council proposes a method
for converting the abundant energy of Hawaiian volcanoes, notably
Kilauea, into electrical power, and explains how the resultant
light and heat could be distributed. He cites the success obtained
in harnessing the Larderello hot springs near Volterra, Italy.
- 1921b Remarks on volcanoes. First Pan-Pacific Sci. Conference,
proc., 1920, pt. 2, no. 7, special pub., pp. 361-8.

TERRITORIAL PARKS AND MONUMENTS

Washington, Henry S., continued.

An address delivered at the Kilauea session of the conference. The author, after reviewing briefly the known geophysical background of volcanology, develops a theory that volcanic heat, and hence volcanic activity, is largely caused by the interactions of magmatic gases. He bases his conclusions on an analysis of volcanic gases obtained from the crater of Kilauea and the pit of Halemaunau. He also reviews briefly the origin of lavas, what makes them rise, and the source of their heat. His conclusions are based on the principle of isostasy.

1922 Mineralogy: augite of Haleakala, Maui, Hawaiian Islands. Am. jour. sci., 5th ser., vol. 3, pp. 117-22.
Analysis, description, and discussion.

1922a The lavas of the Hawaiian volcanoes, 1922 pp. 39-49.
Little is known of the source of lava except that it comes out of the earth, presumably at a depth of from 20 to 50 miles.

1923 Petrology of the Hawaiian Islands: Hualalai and Mauna Loa. Am. jour. sci., 5th ser., 6:100-26 (July).
The recent lavas of Mauna Loa are basalts. The Mauna Loa flows of 1859, 1880-1, 1887 and 1919 are chemically similar.

1923a Petrology of the Hawaiian Islands: Kilauea and general petrology of Hawaii. Am. jour. sci., 5th ser., 6:338-67 (Oct.).
Kilauea lies on the southeast slope of Mauna Loa. The only recorded great explosively paroxysmal eruption of Kilauea, which seems to have changed some of the characters of the lavas, was in 1789. The older lavas of Kilauea belong to three types: olivine-free labradorite basalt, intermediate olivine basalt, and highly olivinic picrite basalt. The recent lavas appear to be more uniform, the greater number being of labradorite basalt.

1923b Petrology of the Hawaiian Islands. The formation of aa and pahoehoe. Am. jour. sci., 5th ser., 6:409-23 (Nov.).

Washington, Henry S., and Keyes, Mary G.

1926 Petrology of the Hawaiian Islands, pt. 6, Maui, Am. jour. sci., 5th ser., 15:199-20 (Mar.).
Lava specimens collected at Kukui and Haleakala are analyzed.

Weld, F. A.

1856 On the volcanic eruption at Hawaii. Geol. Soc. London, quart. jour., vol. 13, pt. 1, pp. 163-9.

A layman's observations of the eruption of Mauna Loa in 1855. The lava flow; 50 miles in length, came within eight miles of Hilo.

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whose inhabitants fled. A trip to the crest of Mauna Loa and Kilauea is described, with comments on the appearance of the interior.

Wentworth, Chester K.

1926 Principles of erosion in Hawaii. Geol. Soc. Am., bul., 37:171-2 (Mar.).

An abstract explaining the factors of erosion in Hawaii.

1927 Estimates of marine and pluvial erosion in Hawaii. Jour. geol., 35:117-33 (Feb.-Mar.).

In the case of cones which have been actively growing within the past few hundred or thousand years, such as Mauna Loa, the existing amount of dissection has slight bearing on the age of the cone, since growth keeps pace with and obliterates the effects of erosion.

1928 Principles of stream erosion in Hawaii. Jour. geol., 36: 385-410 (Aug.), illus., map.

The steepwalled box canyons and imposing cliffs in various parts of Hawaii National Park have long attracted visitors, and in some instances faulting or other tectonic factors have been invoked to explain them. It is concluded that these features are mainly the result of normal erosional processes of the region, which are described.

1935 Mauna Kea, the white mountain of Hawaii. Mid-Pacific mag., 48:291-6 (Oct.-Dec.), illus.

Because of its great age and diversified surface features, Mauna Kea offers geological, botanical, and zoological problems.

Wesley, W. H.

1889 The volcanoes of the Sandwich Islands. Knowledge, n.s., 12:97-100 (Mar. 1), illus.

The processes in Vesuvius are comparable to those of Kilauea.

Westervelt, W. D.

1910 Ai-Laau, the god of Kilauea before Pele. Hawaiian Hist. Soc., ann. rept. (1909), pp. 11-13, illus.

The Kauai version of the myth of Pele.

1916 Hawaiian legends of volcanoes. 205 pp., illus., map. Boston, Ellis press.

Mythology of the Hawaiian volcanoes.

c1923 Hawaiian historical legends. 218 pp., illus., index. New York, Revell.

1923 Maui and the sun god. Mid-Pacific mag., 26:376-80 (Oct.).

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Westervelt, W. D., continued.

The myth attempts to explain certain natural formations in the great extinct crater.

Whitney, Caspar

1899 Hawaiian America, something of its history, resources, and prospects. 330 pp., illus., maps. New York, Harper.

Whitney, Henry M.

1875 The Hawaiian guide book. 144 pp., illus., map, index. Honolulu, H. M. Whitney.

Contains information about the volcanoes of the park.

1890 The tourist's guide through the Hawaiian Islands, descriptive of their scenes and scenery. 176 pp., illus., maps. Honolulu, Hawaiian Gazette Co.

This guide is concerned with the various problems and interests of tourists, and includes descriptions and impressions of Mauna Loa, Kilauea, and Haleakala.

Wieland, G. R.

1930 A sacrifice to Pele. Sci., n.s., 71:386 (Ap. 11).

Brief comment on the destruction of the flora in the regions of Kilauea.

Wilcox, Mabel O.

1917 Our art gallery. Mid-Pacific mag., 12:101-16 (Feb.), illus.

Color plates of the varieties of hibiscus found in Hawaii National Park.

Wilder, Gerrit P.

1932 Early plant life of the Hawaiian Islands. Mid-Pacific mag., 44:3-17 (July), illus.

Wilkes, Charles

1845 Mauna Loa, 1840. In: Narrative of the United States exploring expedition during the years 1838-42, 4:111-62, illus. Philadelphia, Lea and Blanchard.

An account of the ascent of Kilauea and Mauna Loa, with detailed observations on many phases of the volcanic topography and phenomena.

Williams, Kenneth J.

1938 "Hilina Pali" in Hawaii National Park. Paradise of the Pacific, 50:13 (Mar.).

Wilson, R. M.

1926 Volcanic conditions in October. Activity of Halemaumau. Hawaiian Volcano Observatory, mo. bul., 14:85-6 (Oct.), illus.

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Records 64 earthquakes of the local spasmodic tremor type and 6 teleseisms, with time and approximate distance of the latter.

1928 Activity of Halemaumau. Hawaiian Volcano Observatory, monthly bulletin, 16:63-6 (Sept.), map.

Slight changes in wall and bottom conditions of Halemaumau are reported. The seismometric record, showing 88 local earthquakes and two teleseisms, were recorded during the month.

Wood, Edgar

1899 Eruption of Mauna Loa, 1899. Am. geol., 24:300-4 (Nov.), illus., map.

Description of the eruption and of the destruction wrought.

1904 Eruption of Mauna Loa, 1903. Am. geol., 39:62-4 (July), illus.

The eruption as seen from the sea. Lava boiling into the sea, and a tidal wave, resulted.

1909 Hawaii and its volcanoes. Hawaiian almanac and ann., 1910, pp. 182-92.

A review of the phenomena connected with the discharges of molten lava from Kilauea and Mauna Loa, summarizing present knowledge of volcanic structures; the pelagic deposits between the islands; pumice, glass, ashes, and debris of volcanic rocks; past eruptions; and the lava flows from newly formed calderas.

Wood, Harry O.

1913 The Hawaiian Volcano Observatory. Seismological Soc. Am., bul., 3:14-19 (Mar.).

Description of the observatory recently established on the brink of the crater of Kilauea, for the purpose of facilitating the study of the volcanoes of Kilauea and Mauna Loa.

1914 Of the earthquakes of 1868 in Hawaii. Seismological Soc. Am., bul., 4:169 (Dec.), map.

Discussion of the cause of earthquakes which occur in association with the eruption of volcanoes. Comments on several eruptions, and opinions on their cause.

1915 The seismic prelude to the 1914 eruption of Mauna Loa. Seismological Soc. Am., bul., 5:39-51 (Mar.).

After a detailed review of seismic phenomena, including tables and an 88-year record of the eruptions of Mauna Loa, the writer concludes that, "in view of all the above the reality of the seismic prelude is considered established; but nothing occurs in the sequence of events which would justify confident or definite prediction of outbreak."

TERRITORIAL PARKS AND MONUMENTS

Wood, Harry O., continued.

1917 Note on the 1916 eruption of Mauna Loa. Jour. geol., 25:322-36, 467-88 (July-Aug.), illus., maps.

Observations and a photographic record of the Mauna Loa eruptions of 1916. Includes geographical notes, comments on the sources of eruption, source of earliest outbreak, and source of flow.

Wright, George M., and others

1933 [Fauna of Hawaii National Park] In their: Fauna of the national parks of the United States, p. 140. Dept. Int., Natl. Park Serv., Contribs. of Wildlife Surv., Fauna ser., 1. Washington, Govt. print. off.

Wurts, A. J.

1916 Haleakala and the ditch country. Mid-Pacific mag., 11:441-5 (May), illus.

The author describes his ascent of Haleakala, and his experiences and impressions while crossing its crater.

Yard, Robert S.

1919 [Hawaii National Park.] In his: The book of national parks. Pp. 229-44, illus., maps. New York, Scribner's. Includes notes on Hawaii National Park.

1919a Three monsters of Hawaii. In his: The book of the national parks, pp. 229-44, illus. New York, Scribner's. General information concerning the park, with description of its three great volcanoes.

1928 Hawaii. In: The national parks portfolio, pp. 235-39, illus. Washington, Govt. print. off.

1934 Hawaii National Park. In his: Picturesque America, pp. 236-48, illus., map. New York, Union Lib. Assn.

1936 Hawaii National Park. In his: Glimpses of our national parks (Isabelle F. Story, ed.). Pp. 51-5, illus. Dept. Int., Natl. Park Serv. Washington, Govt. Print. Off. General description and information.

Yost, Harold H.

1924 By the fiery pit of Halemaumau. Night-watches at Kilauea Volcano, Hawaii, the largest active crater in the world. Asia, 24:360-5 (May), illus.

Its lava geysers, rivers of molten rock, landslides, and spectacular changes are described.

KATMAI NATIONAL MONUMENT

Anonymous

- 1900 Compilation of narratives of explorations in Alaska. Senate rept., 1023, 56th cong., 1st sess., ser. 3896, 11:1-825, illus., maps.
 These expeditions (1869-99) cover much of the territory in national park and monument areas.
- 1904 Geological survey publications on Alaska. U. S. Geol. Surv., bul. 227, pp. 198-202, index.
 Contains papers and topographic maps on Alaska (1891-1904), also geologic, mining, and historical material.
- 1912 The recent eruption of Katmai volcano in Alaska. Natl. geog. mag., 24:131-81 (Feb.), illus., map.
 Graphic description.
- 1912a Volcanoes of Alaska. Natl. geog. mag., 23:824-32 (Aug.), illus.
 A graphic account of the eruption of Katmai.
- 1913 Eruption of Katmai Volcano, Alaska, 1912. Geog. jour., 41: 387-8 (Ap.).
- 1917 Valley of the Ten Thousand Smokes, Mount Katmai. Natl. geog. mag., 21:13-66 (Jan.), illus., map.
 Explorations in the Katmai region in Alaska.
- 1918 The Katmai expedition of the National Geographic Society. Sci., n.s., 48:84-5 (July 28).
- 1918a The Valley of Ten Thousand Smokes. Natl. geog. mag., 33: 115-69 (Feb.), illus., maps.
 An account of the exploration of this unique volcanic region in Katmai National Monument.
- 1919 The Katmai National Monument. Am. Scenic and Hist. Preservn. Soc., rept., pp. 202-4.
 General description.
- 1919a The Katmai National Monument. Sci., n.s., 49:15-5 (Jan.).
 General description.
- 1919b The Ten Thousand Smokes now a national monument. Natl. geog. mag., 35:359-66 (Ap.), illus.
 Contains President Wilson's proclamation establishing this national monument.

TERRITORIAL PARKS AND MONUMENTS

Anonymous

1904 Geological survey publications on Alaska. U. S. Geol. Surv.,
bul. 227, pp. 198-202, index.

A chronological list (1891-1904), of papers and topographic
maps. Includes accounts of various expeditions, discoveries, geolog-
ical surveys, and mining reports. Takes in this monument area.

Bertholf, E. P., and Erskine, W. J.

1912 Volcanoes of Alaska. Natl. geog. mag., 33:824-32 (Aug.),
illus.

The unpredicted eruption of Katmai Volcano June 6, 1912
caused destruction of crops and fish, and poisoning of water sup-
plies.

Burroughs, John, and others

1901 Alaska. Harriman Alaska expedition. 1:1-183, illus., map.
New York, Doubleday Page.

The expedition included sections of this monument area. Deals
with various scientific fields covered by the expedition.

1920 Katmai National Monument, Alaska. Dept. Int., rept., 1:159-
60.

A report on Mt. Katmai and the Valley of Ten Thousand Smokes.
Describes Katmai crater and fumaroles.

1920a Scientific results of the Katmai expeditions of the National
Geographic Society. 492 pp., illus., maps. Ohio State Univ.
Information, description, ornithology, condition of flora,
and analyses of volcanic ash.

1921 Our greatest national monument. Natl. geog., mag., 46:219-
92 (Sept.), illus., map.

Further exploration of the National Geographic Society's ex-
plorations in the Valley of Ten Thousand Smokes. Description of Mt.
Katmai in 1912.

1923 Valley of Ten Thousand Smokes. Sci. Am., pp. 322-60 (May),
illus.

Explorations on Mt. Katmai and the Valley of Ten Thousand
Smokes.

1930 Katmai National Monument. In: Glimpses of our national mon-
uments, pp. 32-3, illus. Washington, Govt. print. off.

Albright, Horace M., and Taylor, Frank J.

1928 [Katmai National Monument.] In their: Oh, ranger!, p. 167.
Palo Alto, Calif. Stanford Univ. Press.
General description.

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- Clark, George A.
1912 The Katmai eruption. Seismol. soc. Am., bul., 2:226-9
(Dec.), illus.
Damage done by this eruption to fish hatcheries and can-
neries.
- Dailey, I. M.
1912 Report of the eruption of Katmai Volcano. Geog. Soc. Am.,
bul., 44:641-44, illus., map.
Damage caused by this eruption.
- Eldridge, George H.
1900 A reconnaissance in the Susitna Basin and adjacent territory,
Alaska, in 1889. U. S. Geol. Surv., 20th ann. rept. (1898
-99), pt. 7, 509 pp., illus., maps, index.
Discusses topography, geology, agriculture, game, and the in-
habitants, with special reference to volcanic and glacial action in
this area.
- Emerson, B. K., and others
1904 Alaska. Harriman Alaska expedition. 4:1-162, illus., map,
index.
Discusses geology, paleontology, fossils, and flora. New
genera and species were discovered by this expedition. Enumerates
flora in the vicinity of Katmai National Monument.
- Erskine, W. J. See: Bertholf, E. P. 1912.
- Fenner, Clarence N.
1923 The technical papers of the National Geographic Society.
Sci., n.s., 57:446-7 (Ap.).
This paper outlines the probable origin and mode of emplace-
ment of the great tuff deposit of the Valley of Ten Thousand Smokes.

1925 Earth movements accompanying the Katmai eruption. Jour.
geol., 33:116-39 (Feb.-Mar.), illus., map.
During this eruption, new kinds of earth movements occurred.

1926 The Katmai magmatic province. Jour. geol., 34:675-72 (Oct.-
Nov.), illus.
Summary of field work in the Katmai region (1919-23). De-
scription of a collection of igneous rocks, and a study of the phe-
nomena of the eruption.

1930 The Katmai region, Alaska, and the great eruption of 1912.
Jour. geol., 28:569-606 (Oct.-Nov.), illus., maps.
A minor geologic report, confirming some previous theories
and cancelling others.

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Glisan, Rodney L.

1921 Valley of Ten Thousand Smokes. *Mountaineer*, 14:36-43 (Nov.), illus.

Description of the valley, the eruption of Mt. Katmai, and the fumaroles.

Griggs, Robert F.

1917 The Valley of Ten Thousand Smokes. *Natl. geog. mag.*, 31:13:68 (Jan.), illus., map.

Describes the eruption of Mt. Katmai in 1912, which buried Kodiak. Narrative of explorations, with comment on the changed scenic and agricultural conditions. Activities of other volcanoes are described.

1918 Are the Ten Thousand Smokes real volcanoes? *Ohio jour. sci.*, 19:97-116 (Dec.), illus.

Geologic evidence is presented to prove that the valley is truly volcanic in nature. The area of vents shows 53 square miles connected with subterranean magma.

1919 The Katmai National Monument and the Valley of Ten Thousand Smokes. *Sci., n.s.*, 49:236-7 (Mar.).

Contains a letter concerning the vents in this valley.

1921 Our greatest national monument. *Natl. geog. mag.*, 40:219-92 (Sept.), illus.

Description and effects of the Katmai eruption of June 1912.

1923 The Valley of Ten Thousand Smokes. *Current hist.*, 18:126-33 (Ap.), illus.

Describes the Katmai eruption.

1926 The Katmai National Monument. In his: *Naturalist's guide to the Americas*, p. 143. Baltimore, Williams and Wilkins. Colonization of volcanic areas by plants and animals. Description of fauna and flora.

Hagie, C. E.

1929 Alaska--the land few people know. *Overland mo.*, 2d ser., 87:175-6 (June), illus.

Description, history and resources.

Kimball, Herbert H.

1913 The effect upon atmospheric transparency of the eruption of Katmai Volcano. *Mo. weather rev.*, 41:153-9 (Jan.), map.

The hazy condition of the atmosphere was observed in the United States, Europe, and northern Africa. Effect on twilight colors. Includes astronomical and other scientific observations.

KATMAI NATIONAL MONUMENT

Martin, Lawrence, and Williams, E.

- 1924 An ice-eroded fiord, the mode of origin of the Lynn Canal, Alaska. Geog. rev., 14:575-96 (Oct.), illus., maps.
States that the fiord is chiefly due to glacial erosion, and that stream erosion and faulting are of minor importance. Discusses direction of the ice movement and the role of faulting. Contains descriptions.

Martin, George C.

- 1905 The petroleum fields of the Pacific Coast of Alaska, with an account of the Bering River coal deposits. House doc. 391, 58th cong., 3d sess., ser. 4863, 84:1-59, illus., maps, bibliog., index.
Geography, geology and paleontology of the oil regions. Chemical analyses of Alaska petroleum.

- 1913 The recent eruption of Katmai Volcano in Alaska. Natl. geog. mag., 24:131-81 (Feb.), illus., map.
Description of the Mt. Katmai eruption of June 1912.

Mitchell, Guy E.

- 1914 Volcanic activities on the Pacific Coast. Am. rev. of revs., 50:337-44 (Sept.), illus., maps.
Description of the Mt. Katmai eruption of June 1912.

Mather, Stephen T.

- 1919 Creation of the Katmai National Monument. Dept. Int., rept., 1918, 1:834-6, map.
Discovery, exploration, and description.

Malloch, John R.

- 1920 Descriptions of diptera of the families Anthomyiidae and Scatophagidae. Ohio jour. sci., 20:267-87 (May).
A scientific treatise of species of these genera, some of which are recorded on this continent for the first time. They were found in this monument area, as well as in other places.

Taylor, Frank J. See: Albright, Horace M. 1928.

Williams, E. See: Martin, Lawrence. 1924.

Yard, Robert S.

- 1919 Katmai National Monument. In his: The book of national parks. Pp. 154-8, illus., maps. New York, Scribner's

- 1928 [Katmai National Monument.] In: The national parks portfolio, pp. 253-5, illus. Washington, Govt. print. off.
Describes the Katmai eruption of 1912.

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Yard, Robert S., continued.

1931 Katmai's steaming vents. In: The national parks portfolio,
6th ed. pp. 253-6, illus., Washington, Govt. print. off.

1934 Mount Katmai National Monument. In: Picturesque America,
p. 241. New York, Union Lib. Assn.

The eruption of Mt. Katmai in 1912 was accompanied by reverberations heard 750 miles away, caused 60 hours of darkness 100 miles away, produced dust that fell 1000 miles away, and emitted fumes that were carried 1500 miles. Five cubic miles were blown out of Katmai, and ten miles away steam jets were formed in the area now called the "Valley of Ten Thousand Smokes."

Zies, E. G.

1924 Hot springs of the Valley of Ten Thousand Smokes. Jour.
geol., 32:303-10 (May-June), illus.

Summary of the results of several expeditions to the Katmai region of the Alaskan peninsula.

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- 1899 Explorations in Alaska. Natl. geog. mag., 10:269-71 (July). Includes the Mt. McKinley region.
- 1900 Compilation of narratives of explorations in Alaska. Senate rept., 1023, 56th cong., 1st sess., ser. 3896, 11:1-825, illus., maps.
Reports of several expeditions, under the auspices of the War Department, starting with that of Lieut. Raymond in 1869, and closing with those of Glenn, Abercrombie, and Richardson in 1899.
- 1902 Notes of explorations by the United States Geological Survey; Mount McKinley, Alaska. Am. Geog. Soc., bul., 44:454-6 (Feb.).
Information on mineral resources and topography.
- 1904 Geological survey publications on Alaska. U. S. Geol. Surv., bul. 227, pp. 198-202, index.
A chronological list (1891-1904), of papers and topographic maps. Includes accounts of various expeditions, discoveries, geological surveys, and mining reports. Embraces the Mt. McKinley area.
- 1914 The Parker-Browne party climbing the central ridge of Mt. McKinley. Mentor, vol. 2, ser. 72, monograph no. 4, p. 20 (Nov.), illus.
A brief account of the hardships of the ascent.
- 1917 Mount McKinley National Park. Am. Scenic and Hist. Preservn. Soc., ann. rept. (1917), p. 371.
General information and description.
- 1917a The Mount McKinley National Park. Forest and stream, 87: 171 (Ap.).
General description.
- 1925 Mount McKinley National Park. Am. Scenic and Hist. Preservn. Soc., ann. rept. (1925), pp. 130-1.
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- 1919 Will the grizzly be exterminated? In: The grizzly pp. 273-83. New York, Houghton, Mifflin.

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