

A GENERAL INDEX  
TO  
GRAND CANYON NATURE NOTES  
1926-1935

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Compiled under the direction of  
Hazel Hunt Voth  
by workers provided by  
Works Progress Administration

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE  
BERKELEY, CALIFORNIA  
1938

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## FOREWORD

This is the Grand Canyon section of a General Index to Nature Notes being compiled at the Western Museum Laboratories of National Park Service. The General Index covers the years 1920-1936 inclusive and contains 21,800 annotated catalogue cards. It was made primarily to fill the long-felt need for ready-reference material in the Division of Public Relations at Washington. A duplicate set of the cards is filed at the Laboratories in Berkeley. A limited number of bound volumes of the entire Index are being prepared for distribution.

Approximately 2100 cards in the above-mentioned Index refer to Grand Canyon National Park flora and fauna. These cards form the basis for the present author-subject index. It will be noted that many more than that number of items appear in this arrangement because of the emphasis on subject, many articles having been indexed under several subject headings.

The compiler has not attempted systematic classification of flora and fauna; but certain topics, such as Amphibians and Reptiles, Geology, and others, have been loosely grouped together for convenience.

However, in cases where there happened to be only three or four references to amphibians, for instance, in the Nature Notes of a particular park, those references have been distributed under their respective headings, Toads, Salamanders, and so forth, in the general alphabet.

Certain inconsistencies and lack of comprehensiveness exist because the indexing was done indirectly, rather than from the original Nature Notes. The indexers were dependent for subject headings on the facts brought out in the briefly annotated catalogue cards.

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Field observations, by E.D.McKee and others, Vol.9, No.2 (May 1934), pp.280-282, illus.; An outrage, by P.Kraus, Vol.8, No.8 (Nov.1933), pp.209-210; Small but mighty, by E.D.McKee, Vol.5, No.2 (Dec.1930), p.12, illus.

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Field observations, by E.D.McKee and others, Vol.7, No.5 (Aug.1932), p.54; Nesting notes, Vol.3, No.10 (June 1929), pp.3-4; An outrage, by P.Kraus, Vol.8, No.8 (Nov.1933), pp.209-210.

#### Ouzels. See: Water ouzels.

#### Owls

Field observations, by E.D.McKee and others, Vol.5, No.7 (May 1931), pp.69-70, illus.; The hermit of Horn Creek, by E.D.McKee, Vol.7, No.11 (Feb.1933), pp.116-118, illus., bibliog.; Miscellaneous field notes, by R.K.Grater, Vol.9, No.12 (Mar.1935), p.394; Miscellany, by G.Collins and others, Vol.6, No.2 (Dec.1931), pp.21-22, illus.; Odds and ends, by E.D.McKee, Vol.3, No. 9 (May 1929), p.6; Some bird notes from Bly, Arizona, by L.L.Hargrave, Vol.8, No.6 (Sept.1933), pp.184-187, illus.; Special notes, by P. P.Patraw and E.D.McKee, Vol.6, No.

### Swallows

3 (Jan.1932), p.28.

#### Phoebes

Field observations, by E.D.McKee, Vol.6, No.5 (Mar.1932), p.47; Some bird notes from Bly, Arizona, by L.L.Hargrave, Vol.8, No.6 (Sept.1933), pp.184-187, illus.

#### Pigeons

Miscellany, by E.D.McKee, Vol.8, No.7 (Oct.1933), p.205; Odds and ends, Vol.4, No.10 (Aug.30,1930), pp.69-71, illus.

#### Roadrunner

Birds of the Havasupai Canyon, by E.D.McKee, Vol.2, No.3 (Aug.31, 1927), p.2.

#### Robins

A broken-winged robin, by D.E. McHenry, Vol.8, No.5 (Aug.1933), pp.178-181, illus.; Field observations, by E.D.McKee, Vol.6, No. 4 (Feb.1932), p.34, illus.; Nesting notes, Vol.3, No.10 (June 1929), pp.3-4; Robin breaks ice to take bath, Vol.3, No.5 (Oct. 1928), p.2; Robins and the coming of spring, Vol.5, No.4 (Feb.1931), p.42; A winter resident, by G.E. Sturdevant, Vol.1, No.11 (Ap.20, 1927), p.1.

#### Shrikes

Field observations, by D.E.McHenry and E.D.McKee, Vol.7, No.7 (Oct. 1932), pp.75-76.

#### Sparrows

Current observations on bird-banding at Grand Canyon, by R. Grater, Vol.9, No.9 (Dec.1934), p.354; New bird records for park, by E.D.McKee, Vol.3, No.3 (Aug. 1928), p.2; Some migrating sparrows and related species, by R. Grater, Vol.9, No.7 (Oct.1934), pp.335-336, illus.; Some wildlife observations, by R.Grater, Vol.9, No.4 (July 1934), p.303.

#### Swallows

Avian cliff-dwellers, by E.W.

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Count, Vol.4, No.3 (Nov.1929), p. 18; Odds and ends, Vol.4, No.8 (June 1930), p.56.

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Avian cliff-dwellers, by E.W. Count, Vol.4, No.3 (Nov.1929), p. 18; Field observations, by E.D. McKee and others, Vol.5, No.7 (May 1931), pp.69-70, illus.; Swifts, by E.D.McKee, Vol.9, No. 2 (May 1934), p.281; Trailside nests, by E.McKee, Vol.2, No.1 (June 30,1927), pp.3-4.

Thrashers

A sage thrasher, Vol.5, No.9 (July 1931), p.86.

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Field observations, by E.D.McKee and others, Vol.7, No.5 (Aug. 1932), p.54.

Titmice

A lively little beggar, by B.H. McKee, Vol.5, No.6 (Ap.1931), pp. 56-57, illus.; Nesting notes, Vol. 3, No.10 (June 1929), pp.3-4.

Towhees

The canyon towhee, by E.D.McKee, Vol.4, No.11 (Sept.1930), p.80; Field observations, by E.D.McKee, Vol.6, No.5 (Mar.1932), p.47; Some bird notes from Bly, Arizona, by L.L.Hargrave, Vol.8, No.6 (Sept.1933), pp.184-187, illus.; Some migrating sparrows and related species, by R.Grater, Vol. 9, No.7 (Oct.1934), pp.335-336, illus.

Vireos

Cassin vireo observed, Vol.3, No. 1 (June 1928), p.2; Trailside nests, by E.McKee, Vol.2, No.1 (June 30,1927), pp.3-4.

Warblers

Miscellaneous field notes, by R. K.Grater, Vol.9, No.11 (Feb.1935), p.382; A quarrel among bird families, by E.D.McKee, Vol.5, No.11 (Sept.1931), p.117, illus.;

Bridges

Trailside nests, by E.McKee, Vol. 2, No.1 (June 30,1927), pp.3-4.

Water ouzels

Nesting notes, Vol.3, No.10 (June 1929), pp.3-4.

Woodpeckers

July bird notes, by E.W.Count and others, Vol.4, No.9 (July 1930), p.62, illus.; Miscellaneous field notes, by R.K.Grater, Vol.9, No. 11 (Feb.1935), p.382; Miscellany, by E.D.McKee, Vol.8, No.7 (Oct. 1933), p.205; Nesting notes, Vol. 3, No.10 (June 1929), pp.3-4; Red-shafted flicker nests on canyon rim, Vol.2, No.12 (May 31,1928), p.1; Some bird notes from Bly, Arizona, by L.L.Hargrave, Vol.8, No.6 (Sept.1933), pp.184-187, illus.

Yellowlegs, Greater

July bird notes, by E.W.Count and others, Vol.4, No.9 (July 1930), p.62, illus.

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Bogert, C.M.

Herpetological problems at Grand Canyon National Park, Vol.7, No.6 (Sept.1932), pp.61-65, illus.; Notes on Grand Canyon amphibians, Vol.7, No.12 (Mar.1933), pp.119-120, illus.; Notes on porcupines of the Grand Canyon region, Vol. 8, No.1 (Ap.1933), pp.137-140, illus.; Two reptiles new to the Grand Canyon region, Vol.5, No.11 (Sept.1931), pp.115-116, illus.

Brahmaputra River

A deeper canyon, by C.C.Searl, Vol.6, No.3 (Jan.1932), p.26, illus.

Bridges

Breaking a trail through Bright Angel Canyon, by F.E.Matthes, Vol. 2, No. 6 (Nov. 1927), pp. 1-4.

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Breaking a trail through Bright Angel Canyon, by F.E.Matthes, Vol. 2, No.6 (Nov.1927), pp.1-4.

Brooks, J.P.

Field observations, Vol.6, No.4 (Feb.1932), p.33, illus.; Official report on stocking canyon streams ..., Vol.5, No.5 (Mar.1931), p.48; A unique combination, Vol.4, No.5 (Mar.1930), pp.31-32.

Brown, A.L.

Additional Indian ruins of Clear Creek region, Vol.3, No.7 (Jan. 1929), p.1.

Brown, P.E.

Game survey of Walhalla Plateau, Vol.7, No.4 (July 1932), pp.33-38, illus., map.

Bryan, J.J.

Pyrite concretions from the Chuar, Vol.9, No.9 (Dec.1934), pp.350-353, illus.

Cable cars

Yesterdays on the Kaibab Trail and Phantom Ranch, by H.H.Waesche, Vol.8, No.8 (Nov.1933), pp.206-208, illus.

Campbell, I.

Hermit Camp today, Vol.9, No.2 (May 1934), pp.277-280, illus.

Campbell, I. and Maxson, J.

Field studies of the Archean in Grand Canyon, Vol.8, No.2 (May 1933), pp.141-151, illus.

Cannibalism (Animals)

A horned toad, by S.B.Jones, Vol. 4, No.2 (Oct.1929), p.14, illus.

Cattle

Hermit steer of the canyon, Vol. 2, No.12 (May 31, 1928), pp.1-2.

Caves

Exploration of Roaring Springs Cave, by E.F.Seagle, Vol.9, No.12 (Mar.1935), pp.391-394, illus., map.

Cliff dwellings

A Grand Canyon cliff ruin, by E. W.Count, Vol.4, No.5 (Mar.1930), p.31; History note, by E.D.McKee, Vol.9, No.7 (Aug.1934), p.324, illus.; A large cliff dwelling, by B.H.McKee, Vol.8, No.7 (Oct. 1933), pp.198-201, illus.

Collins, George L. (subject)

Personnel notes, by M.R.Tillotson, Vol.6, No.4 (Feb.1932), p.37.

Collins, G.

Bare facts about bear tracks, Vol. 5, No.8 (June 1931), pp.73-74, illus.; Wind rivers of the Grand Canyon, Vol.8, No.10 (Jan.1934), pp.228-232, illus.; Winter feeding of white-tailed squirrels, Vol.5, No.7 (May 1931), pp.67-68, illus.

Collins, G. and others

Miscellany, Vol.6, No.2 (Dec. 1931), pp.21-22, illus.

Colorado River

The carrying power of the Colorado River, by R.L.Nichols, Vol.4, No. 11 (Sept.1930), p.77.

Colorado River expedition

"The Explorer," by M.R.Tillotson, Vol.5, No.3 (Jan.1931), pp.21-24.

Colton, H.S.

Recent publication: The Phytoplankton of some Arizona pools and lakes, by W.R.Taylor and H.S. Colton, Vol.9, No.6 (Sept.1934), p.326.

Coronado expedition

The Coronado expedition, by S.B. Jones, Vol.3, No.10 (June 1929), pp.4-5, map.

Count, E.W.

Avian cliff-dwellers, Vol.4, No.3 (Nov.1929), p.18; Briefs, Vol.4, No.12 (Oct.31, 1930), p.90; Bright Angel Point, Vol.5, No.11 (Sept. 1931), p.117; Chisel-teeth-chatter, Vol.4, No.10 (Aug.1930), pp.65-66;

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Count, E.W. and others

July bird notes, Vol.4, No.9 (July 1930), p.62, illus.

Croft, A.R.

The "Burro Spring" pine, Vol.7, No.11 (Feb.1933), p.113, illus.; Deer browse on cactus, Vol.7, No. 9 (Dec.1932), p.95, illus.; A lesson in erosion, Vol.7, No.5 (Aug.1932), p.50; The 1933 "pine nut" crop, Vol.7, No.6 (Sept. 1932), pp.58-60, illus.; Notes on pinyon-juniper reforestation, Vol.8, No.3 (June 1933), pp.151-154, illus.; Notes on the Yaki Point burn, Vol.7, No.7 (Oct.

Fish culture

1932), pp.71-73, illus.; A "reptile story," Vol.7, No.8 (Nov. 1932), p.76.

Davis, W.M.

Middle canyon sculpturing, Vol.4, No.3 (Nov.1929), pp.17-18.

Dellenbaugh, Frederick S.

Frederick S. Dellenbaugh, Vol.9, No.12 (Mar.1935), pp.389-390, illus.

Dinosaurs

Remnants of the age of dinosaurs on South Rim of Grand Canyon, by E.D.McKee, Vol.9, No.5 (Aug.1934), pp.310-314, illus., table, bibliog.

Earthstars. See: Fungi.

Educational work

Lectures at Yavapai Point, Vol.2, No.12 (May 31,1928), p.4; Scientific work conducted at Grand Canyon, by E.D.McKee, Vol.3, No.9 (May 1929), p.1.

Edwards, W.H.

W.H. Edwards, a Colorado River pioneer, by D.E.McHenry, Vol.9, No.11 (Feb.1935), pp.378-382, port., illus.

Electrical phenomena

Static electricity, by H.H. Hawkins, Vol.9, No.10 (Jan.1935), pp.369-371, illus.; Vol.6, No.3 (Jan.1932), p.28.

Fish and fishing

Briefs, by E.D.McKee, Vol.4, No.6 (Ap.1930), p.37; Field observations, by J.P.Brooks, Vol.6, No.4 (Feb.1932), p.33, illus.; by E.D. McKee, Vol.6, No.5 (Mar.1932), p. 47; Miscellany, by E.D.McKee and others, Vol.7, No.12 (Mar.1933), pp.126-127, illus.

Fish culture

Clear Creek is stocked with trout, Vol.3, No.7 (Jan.1929), p.3; Early stages in the development of rainbow trout, by C.R.Markley, Vol.5, No.6 (Ap.1931), pp.59-60, illus.; Inspecting a possible trout stream

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of Grand Canyon, Vol.2, No.11 (Ap. 30,1928), pp.1-6; Odds and ends, Vol.4, No.10 (Aug.30,1930), pp. 69-71, illus.; Official report on stocking canyon streams..., by J. P.Brooks, Vol.5, No.5 (Mar.1931), p.48; Planting fish eggs in Clear Creek, by P.P.Patraw, Vol.5, No.4 (Feb.1931), pp.34-35; Trout propagation in Grand Canyon National Park, by R.R.Williamson and C.F. Tyler, Vol.7, No.2 (May 1932), pp.11-15, illus.

FLOWERS

Miscellaneous references

Early canyon-bottom flowers, Vol. 5, No.4 (Feb.1931), p.36; Flora of Grand Canyon National Monument, by E.D.McKee, Vol.9, No.7 (Sept. 1934), pp.316-321, illus.; The flora of the Hermit shale in Grand Canyon, by D.White, Vol.4, No.4 (Dec.1929), pp.24-25; Fourth report on the germination of native wild flower seeds, by P.Mead, Vol.5, No.5 (Mar.1931), pp.51-52; Preliminary report on the germination of native wild flower seeds, by P.Mead, Vol.5, No.2 (Dec.1930), pp.19-20; Second report of the germination of native wild flower seeds, by P.Mead, Vol. 5, No.3 (Jan.1931), pp.28-29; Seeds of some Grand Canyon wild flowers, by P.Mead, Vol.4, No.12 (Oct.1930), pp.84-89, illus.; Some Grand Canyon plants and their uses, by P.Mead, Vol.4, No.11 (Sept.1930), pp.72-77, illus.

Apache plume

Canyon rim roses, by G.E. Sturdevant, Vol.2, No.3 (Aug.31, 1927), p.3.

Broom, Turpentine

The first spring flowers, by P. Mead, Vol.5, No.4 (Feb.1931), p.

Fossils

36, illus.  
 Cacti  
 Botanical notes, by E.D.McKee, Vol.9, No.5 (Aug.1934), p.315.  
 Cinquefoil  
 Canyon rim roses, by G.E. Sturdevant, Vol.2, No.3 (Aug.31, 1927), p.3.  
 Fern bush  
 Canyon rim roses, by G.E. Sturdevant, Vol.2, No.3 (Aug.31, 1927), p.3.  
 Lilies  
 Mariposa lily, by L.Hills, Vol.3, No.12 (Aug.1929), p.1; A yellow lily, by P.M.Patraw, Vol.5, No.10 (Aug.1931), p.105.  
 Pentstemons  
 A mutating pentstemon, by E.W. Count, Vol.4, No.1 (Sept.1929), p.6.  
 Roses  
 Canyon rim roses, by G.E. Sturdevant, Vol.2, No.3 (Aug.31, 1927), p.3.  
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 Cliff rose..., by G.E.Sturdevant, Vol.1, No.6 (Sept.1926), pp.1-2; Field observations, by E.D.McKee and others, Vol.5, No.7 (May 1931), pp.69-70, illus.  
 Roses, Rock  
 Canyon rim roses, by G.E. Sturdevant, Vol.2, No.3 (Ap.31, 1927), p.3.  
 Yucca  
 The Yucca--sword-like yet friendly, by B.H.McKee, Vol.6, No.3 (Jan.1932), pp.23-25, illus.

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Forest fires

The story of a forest fire, by R. Redburn, Vol.8, No.1 (Ap.1933), pp.136-137.

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Briefs, by E.D.McKee, Vol.4, No.6

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(Ap.1930), p.37; Crinoidal limestone, by E.D.McKee, Vol.5, No.12 (Oct.1931), pp.126-127, illus.; Dragon fly, by G.E.Sturdevant, Vol.1, No.4 (June 1926), p.3; Foot-prints of Baropus, Vol.6, No.1 (Nov.1931), p.14, illus.; Fossil fish, Vol.1, No.7 (Nov.1926), p.4; Fossil foot-prints, by C.W. Gilmore, Vol.1, No.4 (June 1926), p.1; Fossil foot-prints of the Coconino, by E.D.McKee, Vol.5, No.5 (Mar.1931), pp.43-44; Fossil Mountain, by E.D.McKee, Vol.5, No.2 (Dec.1930), pp.18-19, illus.; Fossils, by G.E.Sturdevant, Vol.1, No.9 (Jan.10,1927), pp.1-4, illus.; Fossils and what they tell, by R.L.Nichols, Vol.4, No.9 (July 1930), pp.59-60, illus.; Fossils collected, Vol.3, No.1 (June 1928), p.4; Geography of the middle Cambrian period, by E. D.McKee, Vol.5, No.7 (May 1931), pp.62-64, illus.; Grand Canyon animal tracks, by G.E.Sturdevant, Vol.2, No.4 (Sept.30,1927), p.5; Hither and yon, by E.D.McKee, Vol.4, No.2 (Oct.1929), pp.13-14; Laoporus goes walking, by E.D. McKee, Vol.3, No.12 (Aug.1929), pp.3-4, illus.; Lessons from a graveyard, Vol.3, No.5 (Oct.1928), p.1; Note on paleontology, by E. D.McKee, Vol.9, No.6 (No.7) (Sept. 1934), pp.325-326; Odds and ends, Vol.4, No.8 (June 1930), p.56; Pages in Cambrian history, by E. D.McKee, Vol.4, No.7 (May 31, 1930), pp.46-48, illus.; A probable influence on life in the Kaibab Sea, by E.D.McKee, Vol.8, No.11 (Feb.1934), pp.239-243, illus., bibliog.; Scientific expedition to the Nankoweap, Vol.4, No.7 (May 31,1930), p.41; Species of Productus of Kaibab limestone at Grand Canyon, Vol.2, No.8 (Jan.

Geology

1928), pp.3-5, illus.; Third publication on Grand Canyon animal tracks, by G.E.Sturdevant, Vol.2, No.10 (Mar.31,1928), p.4.  
 Fungi--Propagation  
 The Geaster or earthstar, by H.V. Hibbard, Vol.3, No.3 (Aug.1928), pp.2-3, illus.; Mushrooms on the Kaibab, by L.E.Mills, Vol.4, No.1 (Sept.1929), pp.3-4, illus.  
 Game management  
 Fawns arrive from Kaibab, by G.E. Sturdevant, Vol.3, No.8 (Feb. 1929), pp.4-5; Flying deer, by P. P.Patraw, Vol.4, No.2 (Oct.1929), pp.9-10; Game survey of Walhalla Plateau, by P.E.Brown, Vol.7, No. 4 (July 1932), pp.33-38, illus., map; Status of the desert bighorn in Grand Canyon National Park, by E.D.McKee, Vol.9, No.4 (July 1934), pp.294-300, illus.

GEOLOGY

Miscellaneous references

The Bright Angel fault, by E.D. McKee, Vol.4, No.3 (Nov.1929), pp.21-22; The Colorado River, by R.A.Redburn, Vol.5, No.11 (Sept. 1931), pp.110-114, illus., map.; Concerning the age of the Grand Canyon, by E.D.McKee, Vol.7, No.4 (July 1932), pp.38-39, illus., bibliog.; The esplanade, by E.D. McKee, Vol.4, No.11 (Sept.1930), pp.78-79, illus.; Field studies of the Archean in Grand Canyon, by I.Campbell and J.Maxson, Vol. 8, No.2 (May 1933), pp.141-151, illus.; Formations exposed at the Grand Canyon, by G.E.Sturdevant, Vol.2, No.2 (July 1927), pp.2-5, illus.; Geological and wildlife observations, by E.D.McKee, Vol. 5, No.1 (Nov.1930), pp.3-10, illus.; The goal of Yavapai, by C. E.Searl, Vol.5, No.3 (Jan.1931),

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pp.31-33; Middle canyon sculpturing, by W.M.Davis, Vol.4, No.3 (Nov.1929), pp.17-18; Mountains at close of the Algonkian era, by E.D.McKee, Vol.8, No.7 (Oct.1933), pp.202-204, illus., bibliog.; The origin of Bright Angel Canyon, by E.D.McKee, Vol.6, No.2 (Dec.1931), pp.19-21, illus., map; The origin of the Hermit Basin, by E.D.McKee, Vol.5, No.3 (Jan.1931), p.27; Rejuvenation, by G.E.Sturdevant, Vol.2, No.10 (Mar.31,1928), pp.2-3, map; A remnant of the age of fishes, by E.D.McKee, Vol.5, No.4 (Feb.1931), p.39, illus.; Report of Nankowcap trip, by C.E.Resser, Vol.4, No.8 (June 1930), pp.48-49; Ripples in the sands of time, by E.D.McKee, Vol.4, No.12 (Oct. 1930), pp.91-93, illus.; Some fucoides from Grand Canyon, by E.D. McKee, Vol.7, No.8 (Nov.1932), pp.77-81, illus.; Some observations of the Unkar group of the Grand Canyon Algonkian, by C.E. Van Gundy, Vol.9, No.8 (Nov.1934), pp.338-349, illus., map; A study of the Algonkian formation in Grand Canyon, by N.E.A.Hinds, Vol. 8, No.5 (Aug.1933), pp.182-183; Surface topography of the Kaibab, by E.D.McKee, Vol.4, No.2 (Oct. 1929), pp.10-12; What causes the canyon walls to recede? by G.E. Sturdevant, Vol.3, No.4 (Sept. 1928), pp.1-3, illus.; The youthful Grand Canyon, by E.D.McKee, Vol.4, No.5 (Mar.1930), pp.33-35, illus.

Anita Copper Mine

Anita Copper Mine, by H.H.Waesche, Vol.7, No.11 (Feb.1933), pp.108-112, illus.

Calcite

Calcite, by G.E.Sturdevant, Vol. 1, No.8 (Dec.1926), pp.3-4, illus.

Gold

Chert

A probable influence on life in the Kaibab Sea, by E.D.McKee, Vol. 8, No.11 (Feb.1934), pp.239-243, illus., bibliog.

Copper

The Anita Copper Mine, by H.H. Waesche, Vol.7, No.11 (Feb.1933), pp.108-112, illus.; Copper deposits in the Grand Canyon, by E. D.McKee, Vol.4, No.9 (July 1930), p.61; The Grand View Copper Project, by H.H.Waesche, Vol.8, No. 12 (Mar.1934), pp.250-258, illus., map, bibliog.

Dikes

Identification of the common pink mineral found near Phantom Ranch, by B.F.Moomaw, Vol.6, No.5 (Mar. 1932), pp.46-47; Pegmatite dikes, by G.E.Sturdevant, Vol.2, No.4 (Sept.1927), pp.4-5.

Erosion

Earthquake, Grand Canyon, by D.E. McHenry, Vol.9, No.11 (Feb.1935), pp.372-377, bibliog., maps; A lesson in erosion, by A.R.Croft, Vol. 7, No.5 (Aug.1932), p.50; Theories relating to origin of the canyon, by G.E.Sturdevant, Vol.1, No.11 (Ap.20,1927), pp.2-3; Wind erosion in the Grand Canyon, by E.D.McKee, Vol.3, No.9 (May 1929), pp.5-6; Wind rivers of the Grand Canyon, by G.L.Collins, Vol.8, No.10 (Jan. 1934), pp.228-232, illus.

Feldspar

Feldspars of Phantom Ranch area, by H.H.Waesche, Vol.8, No.6 (Sept. 1933), pp.188-189, illus.

Gneiss

Field studies of the Archean in Grand Canyon, by I.Campbell and J.Maxson, Vol.8, No.2 (May 1933), pp.141-151, illus.

Gold

Is there gold in the Canyon? by H.R.Lauzon, Vol.8, No.10 (Jan.

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1934), pp.233-234, illus., bibliog.  
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Field studies of the Archean in Grand Canyon, by I.Campbell and J.Maxson, Vol.8, No.2 (May 1933), pp.141-151, illus.

Jasper

Some jaspers of the Grand Canyon ... , by E.D.McKee, Vol.8, No.4 (July 1933), pp.171-172.

Landslides

Landslides and their part in widening the Grand Canyon, by E.D. McKee, Vol.8, No.3 (June 1933), pp.158-161, illus.

Limestone

Crinoidal limestone, by E.D.McKee, Vol.5, No.12 (Oct.1931), pp.126-127, illus.; Field observations, by E.D.McKee, Vol.6, No.5 (Mar. 1932), p.47; Species of Productus of Kaibab limestone at Grand Canyon, Vol.2, No.8 (Jan.1928), pp. 3-5, illus.

Migmatite

Field studies of the Archean in Grand Canyon, by I.Campbell and J.Maxson, Vol.8, No.2 (May 1933), pp.141-151, illus.

Minerals (General)

Blue ribbon minerals, by H.H. Waesche, Vol.5, No.10 (Aug.1931), pp.95-98, illus.; A summary of Grand Canyon minerals, by H.H. Waesche, Vol.7, No.5 (Aug.1932), pp.44-48, illus., bibliog.

Pegmatite

Field studies of the Archean in Grand Canyon, by I.Campbell and J.Maxson, Vol.8, No.2 (May 1933), pp.141-151, illus.

Pyrites

Pyrite concretions from the Chuar, by J.J.Bryan, Vol.9, No.9 (Dec. 1934), pp.350-353, illus.

Quartzite

Field observations, by E.D.McKee, Vol.6, No.5 (Mar.1932), p.47;

Gladwin

Field studies of the Archean in Grand Canyon, by I.Campbell and J.Maxson, Vol.8, No.2 (May 1933), pp.141-151, illus.

Rock slides

Rock slide in the Coconino sandstone, by R.Grater, Vol.9, No.10 (Jan.1935), pp.368-369, illus.

Rocks

The ancient Mazatzal land, by E.D. McKee, Vol.6, No.5 (Mar.1932), pp. 42-45, illus.; Building rocks, by C.Searl, Vol.5, No.4 (Feb.1931), pp.40-41; Comparative porosity of rock formations in Grand Canyon, by H.H.Waesche, Vol.6, No.4 (Feb. 1932), pp.35-37; Field studies of the Archean in Grand Canyon, by I.Campbell and J.Maxson, Vol.8, No.2 (May 1933), pp.141-151, illus.; Sedimentary rocks, by C.C. Searl, Vol.5, No.5 (Mar.1931), pp. 45-46.

Sandstones

Field observations, by E.D.McKee, Vol.6, No.5 (Mar.1932), p.47.

Shales

Field observations, by E.D.McKee, Vol.6, No.5 (Mar.1932), p.47.

Silica

A probable influence on life in the Kaibab Sea, by E.D.McKee, Vol. 8, No.11 (Feb.1934), pp.239-243, illus., bibliog.

Vanadinite

Vanadinite in the Grand Canyon, by E.D.McKee, Vol.4, No.8 (June 1930), p.52, illus.

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Gilmore, C.W.

Fossil footprints, Vol.1, No.4 (June 1926), p.1. Gladwin, Harold S. (subject)

Archaeology, Vol.4, No.8 (June 1930), p.50.

Gladwin, H.S.

Wayside museum of archaeology expedition, Vol.4, No.8 (June 1930), pp.50-51.

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The blue haze of the Grand Canyon, by R.A.Redburn and H.N.Russell, Vol.5, No.10 (Aug.1931), pp.98-100; Clear Creek expedition, by R.Hastings, Vol.4, No.10 (Aug.1930), pp.64-65, illus.; Field observations, by R.A.Redburn and others, Vol.5, No.8 (June 1931), pp.82-83, illus.; Hermit Camp today, by I.Campbell, Vol.9, No.2 (May 1934), pp.277-280, illus.; Kaibab Trail, by E.W.Count, Vol.4, No.8 (June 1930), pp.53-55, illus.; A visit to an unfrequented part of the Grand Canyon, by G.E. Sturdevant, Vol.2, No.9 (Feb. 1928), pp.1-7, illus.; Woodland parks on the North Rim, by D.E. McHenry, Vol.8, No.7 (Oct.1933), pp.195-198, illus.; Yesterdays on the Kaibab Trail and Phantom Ranch, by H.H.Waesche, Vol.8, No. 8 (Nov.1933), pp.206-208, illus.

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Vol.7, No.1 (Ap.1932), pp.1-2.

Grasses

Inspecting a possible trout stream of Grand Canyon, Vol.2, No.11 (Ap.30,1928), pp.1-6.

Grater, R.

An archeological-minded jay, Vol. 9, No.7 (Sept.1934), pp.322-323, illus.; Current observations on bird-banding at Grand Canyon, Vol. 9, No.9 (Dec.1934), p.354; Field observations, Vol.9, No.7 (Oct. 1934), p.337, illus.; Miscellaneous field notes, Vol.9, No.11 (Feb.1935), p.382; Vol.9, No.12 (Mar.1935), p.394; Rock slide in the Coconino sandstone, Vol.9, No. 10 (Jan.1935), pp.368-369, illus.; Some migrating sparrows and related species, Vol.9, No.7 (Oct. 1934), pp.335-336, illus.; Some wildlife observations, Vol.9, No.

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4 (July 1934), p.303; Some wild-life observations on the canyon floor, Vol.9, No.10 (Jan.1935), pp.365-367; Status of the American pronghorn antelope in Grand Canyon region, Vol.9, No.12 (Mar. 1935), pp.383-388, illus.; When enemies meet, Vol.9, No.7 (Sept. 1934), p.322.

Greenland Lake

Greenland Lake, by E.D.McKee, Vol. 6, No.4 (Feb.1932), p.30.

Hargrave, L.L.

Bird-banding in northern Arizona. Pt.1, Flagstaff station, Vol.7, No.11 (Feb.1933), pp.114-116, illus.; Miscellaneous bird notes from the San Francisco Mountains, Vol.7, No.2 (May 1932), pp.18-21; Some bird notes from Bly, Arizona, Vol.8, No.6 (Sept.1933), pp.184-187, illus.

Hastings, B.

The chuckwalla, Vol.3, No.9 (May 31,1929), p.2; Lady Hecate, Vol. 3, No.10 (June 1929), p.2.

Hastings, R.

Clear Creek expedition, Vol.4, No. 10 (Aug.1930), pp.64-65, illus.; Grand Canyon archaeology, Vol.7, No.5 (June 1932), pp.22-27, illus.

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Static electricity, Vol.9, No.10 (Jan.1935), pp.369-371, illus.

Herbariums

Additions to Grand Canyon herbarium, Vol.7, No.11 (Feb.1933), p. 118; The herbarium of Grand Canyon National Park, Vol.6, No.4 (Feb.1932), pp.31-33, illus.

Hermit Creek Camp

Hermit Camp today, by I.Campbell, Vol.9, No.2 (May 1934), pp.277-280, illus.

Hibbard, H.V.

Tribute to Professor H.V. Hibbard, Vol.3, No.7 (Jan.1929), p.4.

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 The Geaster or earthstar, Vol.3, No.3 (Aug.1928), pp.2-3, illus.
- Hikes and hiking  
 Canyon hiking, Vol.2, No.5 (Oct. 1927), pp.2-3.
- Hills, L.  
 Mariposa lily, Vol.3, No.12 (Aug. 1929), p.1.
- Hinds, N.E.A.  
 A study of the Algonkian formation in Grand Canyon, Vol.8, No.5 (Aug. 1933), pp.182-183.
- History of Grand Canyon  
 Frederick S. Dellenbaugh, by G.L. C., Vol.9, No.12 (Mar.1935), pp. 389-390, illus.; An historical record, by G.Sykes, Vol.5, No.12 (Oct.1931), pp.123-124; The naming of the Grand Canyon, by B.H.McKee, Vol.8, No.8 (Nov.1933), pp.210-212, illus.

INDIANS

- Miscellaneous references  
 Additional Indian ruins of Clear Creek region, by A.L.Brown, Vol. 3, No.7 (Jan.1929), p.1; Indian uses of juniper in the Grand Canyon region, by D.E.McHenry, Vol. 9, No.1 (Ap.1934), pp.261-271; Relic of the past, by A.Albert, Vol.5, No.9 (July 1931), pp.87-88, illus.
- Basketry  
 Ethnological note, by B.H.McKee, Vol.9, No.6 (No.7) (Sept.1934), p.326; Havasupai basketry, by E. D.McKee, Vol.8, No.1 (Ap.1933), pp.130-135, illus.
- Foods  
 How the Supai Indians prepare mescal, as told me by Supai Lilly Burro, by B.H.McKee, Vol.5, No.9 (July 1931), pp.89-90, illus.; "Mescal," by G.E.Sturdevant, Vol. 1, No.4 (June 1926), p.4.

Insects

- Hopi Indians  
 The Hopi snake dance, by B.H. McKee, Vol.4, No.10 (Aug.1930), pp.63-64; Snakes as mediators, by E.D.McKee, Vol.4, No.1 (Sept.1929), p.5; Some Grand Canyon plants and their uses, by P.Mead, Vol.4, No. 11 (Sept.1930), pp.72-77, illus.
- Hopi Indians--Social life and customs  
 The Cover: Hopi symbols, by E.W. Count, Vol.4, No.2 (Oct.1929), pp. 8-9; Navi'-pe, by E.W.Count, Vol. 6, No.3 (Jan.1932), p.25.
- Navaho Indians  
 Navajo makes rain, Vol.2, No.1 (June 30,1927), pp.1-2; The Navajo silversmith, by E.W.Count, Vol.4, No.7 (May 31,1930), p.45; Rug weaving, Navajo style, by E.W. Count, Vol.4, No.4 (Dec.1929), pp. 25-26, illus.
- Pueblo Indians  
 Grand Canyon archaeology, by R. Hastings, Vol.7, No.3 (June 1932), pp.23-27, illus.; A large cliff dwelling, by B.H.McKee, Vol.8, No. 7 (Oct.1933), pp.198-201, illus.; Notes, Vol.5, No.3 (Jan.1931), p. 33.
- Supai Indians. See: Foods, col.1.

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INSECTS

- Miscellaneous references  
 A baffling piece of plate glass, by H.H.Waesche, Vol.7, No.6 (Sept. 1932), pp.55-57, illus.; Geological and wildlife observations, by E. D.McKee, Vol.5, No.1 (Nov.1930), pp.3-10, illus.; Insect notes, by C.C.Searl, Vol.7, No.6 (Sept.1932), p.57; Vandals of the sand, by C. C.Searl, Vol.6, No.5 (Mar.1932), pp.41-42, illus.
- Ant lions  
 Daily battles, by G.E.Sturdevant,

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Beetles

Beetles, by C.C.Searl, Vol.5, No.3 (Jan.1931), pp.25-26, illus.; Field observations, by E.D.McKee and others, Vol.5, No.7 (May 1931), pp.69-70, illus.; Some beetles of Grand Canyon, by C.C.Searl, Vol.5, No.6 (Ap.1931), pp.54-55, illus.

Butterflies

Briefs, by E.D.McKee, Vol.4, No.6 (Ap.1930), p.37; Butterflies near the Colorado River in November, by P.Mead, Vol.5, No.1 (Nov.1930), pp.2-3, illus.; Butterflies of the Grand Canyon, by R.G.Wind, Vol.4, No.12 (Oct.1930), pp.81-84; The Papilio tribe of butterflies, by E.D.McKee, Vol.2, No.2 (July 1927), pp.1-2, illus.

Cicadas

An insect observation, by C.C.Searl, Vol.7, No.5 (Aug.1932), pp.51-52, illus.; An interesting bug, by C.Searl, Vol.5, No.7 (May 1931), pp.64-65, illus.

Crickets

Cricket notes, by E.W.Count, Vol.3, No.12 (Aug.31,1929), pp.4-5.

Doodle bugs. See: Ant lions.

Dragon-flies

Dragon-flies at Grand Canyon, by C.C.Searl, Vol.6, No.2 (Dec.1931), pp.16-18, illus.

Lantern-fly

The lantern-fly, by C.C.Searl, Vol.5, No.8 (June 1931), p.77.

Moths

Giant moths, by E.D.McKee, Vol.5, No.9 (July 1931), pp.93-94, illus.; Giant moths--Errata, Vol.6, No.1 (Nov.1931), p.14; The Polyphemus moth, by E.D.McKee, Vol.3, No.2 (July 1928), pp.4-5, illus.

Scorpions

Scorpion vs. centipede, by E.D.McKee, Vol.7, No.9 (Dec.1932), p.

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94, illus.; Scorpion vs. tarantula, by B.H.McKee, Vol.7, No.1 (Ap.1932), pp.8-9, illus.

Tarantulas

Field observations, by D.E.McHenry and E.D.McKee, Vol.7, No.7 (Oct. 1932), pp.75-76; Hither and yon, by E.D.McKee, Vol.4, No.2 (Oct. 1929), pp.13-14; Miscellany, by L.Schellbach and others, Vol.8, No.8 (Nov.1933), pp.215-216; Scorpion vs. tarantula, by B.H.McKee, Vol.7, No.1 (Ap.1932), pp.8-9, illus.

(End of section, Insects)

Ives, Joseph C.

"The Explorer," by M.R.Tillotson, Vol.5, No.3 (Jan.1931), pp.21-24.

Jenks, R.

Birding in Grand Canyon, Vol.5, No.8 (June 1931), pp.75-77, illus.; Recent bird records from Havasu Canyon, Vol.7, No.5 (Aug.1932), p.53; Some birds and their nests on the Kaibab, Vol.5, No.10 (Aug. 1931), pp.101-105.

Jones, S.B.

Climbing deer, Vol.4, No.5 (Mar. 1930), p.32; The Coronado expedition, Vol.3, No.10 (June 1929), pp.4-5, map; The elusive Sceloporus, Vol.4, No.2 (Oct.1929), pp.12-13, illus.; A horned toad, Vol.4, No.2 (Oct.1929), p.14, illus.; Horned toads, Vol.4, No.1 (Sept. 1929), pp.1-2; Lightning-scarred trees, Vol.3, No.12 (Aug.1929), p.5; Oh, cedar! Vol.4, No.7 (May 31,1930), pp.42-43; Porky, Vol.4, No.3 (Nov.1929), pp.19-20; Unconventional pines, Vol.4, No.4 (Dec. 1929), p.25, illus.

Kaibab Plateau

Surface topography of the Kaibab, by E.D.McKee, Vol.4, No.2 (Oct. 1929), pp.10-12.

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Kraus, P.

A lunar rainbow, Vol.8, No.6 (Sept. 1933), p.190; Miscellany, Vol.8, No.7 (Oct.1933), p.205; An outrage, Vol.8, No.8 (Nov.1933), pp.209-210.

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Cougars on the South Rim of Grand Canyon, Vol.4, No.4 (Dec.1929), pp.23-24, illus.; Is there gold in the canyon? Vol.8, No.10 (Jan. 1934), pp.233-234, illus., bibliog.

Leroux, Antoine

An historical record, by G.Sykes, Vol.5, No.12 (Oct.1931), pp.123-124.

Libraries

Publications received for reference library, Vol.1, No.7 (Nov. 1926), p.6; The reference library, Vol.4, No.7 (May 31, 1930), p.42.

Lichens

Grand Canyon lichens, by E.D. McKee, Vol.4, No.4 (Dec.1929), pp. 27-29, illus.

Life zones

Analogy of past and present life, by C.W.Merriam, Vol.3, No.2 (July 1928), pp.3-4; A brief ecological comparison of life zones on the Kaibab Plateau, by P.Mead, Vol.5, No.2 (Dec.1930), pp.13-17, maps; Bright Angel Point, by E.W.Count, Vol.5, No.11 (Sept.1931), p.117; Canadian zone plants on the South Rim of Grand Canyon, by D.E. McHenry, Vol.9, No.4 (July 1934), pp.301-303, illus.; Demonstration life zone gardens, by D.E.McHenry, Vol.7, No.8 (Nov.1932), pp.81-85, illus.; Flora of the Tonto Platform, Vol.1, No.12 (May 1927), p. 1; From low to high, by F.E.Lutz, Vol.9, No.7 (Oct.1934), pp.327-

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329, illus.; Irregularities in climatic belts, by C.Searl, Vol. 4, No.10 (Aug.1930), pp.68-69; Lessons from the Grand Canyon, by G.E.Sturdevant, Vol.3, No.7 (Jan. 1929), pp.2-3; Life zones of the Grand Canyon, by V.Bailey, Vol.3, No.9 (May 1929), pp.2-4.

Lutz, F.E.

From low to high, Vol.9, No.7 (Oct.1934), pp.327-329, illus.

Luzon, B.

A strange combination, Vol.5, No. 4 (Feb.1931), p.38.

Lynch, C.

Canyon storm, Vol.7, No.5 (Aug. 1932), p.49; Chipmunk, Vol.6, No. 3 (Jan.1932), p.29, illus.; Forest fire, Vol.5, No.11 (Sept.1931), p. 118, illus.

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Archaeology, Vol.4, No.3 (June 1930), p.50.

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Ancient pottery rebuilt by CCC's, Vol.8, No.10 (Jan.1934), pp.235-237; A broken-winged robin, Vol. 8, No.5 (Aug.1933), pp.178-181, illus.; Canadian zone plants on the South Rim of Grand Canyon, Vol.9, No.4 (July 1934), pp.301-303, illus.; Demonstration life zone gardens, Vol.7, No.8 (Nov. 1932), pp.81-85, illus.; Does mistletoe kill the trees at Grand Canyon? Vol.9, No.5 (No.6) (Aug. 1934), pp.305-309, illus.; Earthquake, Grand Canyon, Vol.9, No.11 (Feb.1935), pp.372-377, bibliog., maps; Gambel oaks at Grand Canyon, Vol.7, No.12 (Mar.1933), pp.124-125, illus.; Indian uses of juniper in the Grand Canyon region, Vol.9, No.1 (Ap.1934), pp.261-271; Lizard eat lizard, Vol.9, No.3 (June 1934), pp.285-287, illus.; Prince's plume, a new mustard record, Vol.7, No.2 (May 1932), pp.

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McHenry, D.E. and McKee, E.D.

Field observations, Vol.7, No.7 (Oct.1932), pp.75-76.

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Bucks grow bold, Vol.8, No.11 (Feb.1934), pp.244-245, illus.; Ethnological note, Vol.9, No.6 (No.7) (Sept.1934), p.326; The Hopi snake dance, Vol.4, No.10 (Aug.1930), pp.63-64; How the Supai Indians prepare mescal..., Vol.5, No.9 (July 1931), pp. 89-90, illus.; A large cliff dwelling, Vol.8, No.7 (Oct.1933), pp.198-201, illus.; A lively little beggar, Vol.5, No.6 (Ap. 1931), pp.56-57, illus.; The naming of the Grand Canyon, Vol.8, No.8 (Nov.1933), pp.210-212, illus.; Over-abundant chipmunks, Vol.8, No.4 (July 1933), pp.169-171, illus.; Raven vs. squirrel,

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**bibliog.;** Ripples in the sands of time, Vol.4, No.12 (Oct.1930), pp. 91-93, illus.; Scientific work, Vol.3, No.10 (June 1929), p.1; Scientific work conducted at Grand Canyon, Vol.3, No.9 (May 1929), p.1; Scorpion vs. centipede, Vol. 7, No.9 (Dec.1932), p.94, illus.; Small but mighty, Vol.5, No.2 (Dec.1930), p.12, illus.; Snake stories, Vol.7, No.9 (Dec.1932), p.96, illus.; Snakes as mediators, Vol.4, No.1 (Sept.1929), p.5; Some fucoides from Grand Canyon, Vol.7, No.8 (Nov.1932), pp.77-81, illus.; Some jaspers of the Grand Canyon and their significance, Vol.8, No.4 (July 1933), pp.171-172; Some notes on bird feeding and photography, Vol.7, No.1 (Ap. 1932), pp.3-5, illus.; Status of the desert bighorn in Grand Canyon National Park, Vol.9, No.4 (July 1934), pp.294-300, illus.; Surface topography of the Kaibab, Vol.4, No.2 (Oct.1929), pp.10-12; Swifts, Vol.9, No.2 (May 1934), p.281; Trailside nests, Vol.2, No. 1 (June 30,1927), pp.3-4; Vanadinite in the Grand Canyon, Vol.4, No.8 (June 1930), p.52, illus.; When winter comes, Vol.6, No.3 (Jan.1932), p.27, illus.; Wind erosion in the Grand Canyon, Vol. 3, No.9 (May 1929), pp.5-6; The youthful Grand Canyon, Vol.4, No. 5 (Mar.1930), pp.33-35, illus.

McKee, E.D. and others

Field observations, Vol.5, No.7 (May 1931), pp.69-70, illus.; Vol. 7, No.5 (Aug.1932), p.54; Vol.9, No.2 (May 1934), pp.280-282, illus.; Miscellany, Vol.7, No.12 (Mar.1933), pp.126-127, illus.; Notelets, Vol.5, No.6 (Ap.1931), p.61, illus.

Markley, C.

The badger and its environment,

Merriam

Vol.5, No.3 (Jan.1931), pp.30-31; Early stages in the development of rainbow trout, Vol.5, No.6 (Ap. 1931), pp.59-60, illus.; The raccoon of Havasupai, Vol.5, No.5 (Mar.1931), pp.49-50, illus.; Sonora beaver, Vol.5, No.8 (June 1931), pp.78-80, illus.

Matthes, F.E.

Breaking a trail through Bright Angel Canyon, Vol.2, No.6 (Nov. 1927), pp.1-4.

Mead, P. See also: Patraw, P.M.

A brief ecological comparison of life zones on the Kaibab Plateau, Vol.5, No.2 (Dec.1930), pp.13-17, maps; Butterflies near the Colorado River in November, Vol.5, No. 1 (Nov.1930), pp.2-3, illus.; The first spring flower, Vol.5, No.4 (Feb.1931), p.36, illus.; Fourth report on the germination of native wild flower seeds, Vol.5, No. 5 (Mar.1931), pp.51-52; Our cactuses, Vol.4, No.6 (Ap.1930), pp. 38-40, illus.; Preliminary report on the germination of native wild flower seeds, Vol.5, No.2 (Dec. 1930), pp.19-20; The rock-loving alumroot, Vol.5, No.5 (Mar.1931), p.47, illus.; Second report of the germination of native wild flower seeds, Vol.5, No.3 (Jan. 1931), pp.28-29; Seeds of some Grand Canyon wild flowers, Vol.4, No.12 (Oct.1930), pp.84-89, illus.; Some Grand Canyon plants and their uses, Vol.4, No.11 (Sept.1930), pp.72-77, illus.; Third report on the germination of native wild flower seeds, Vol. 5, No.4 (Feb.1931), pp.41-42; A winter-blooming goosefoot, Vol.5, No.1 (Nov.1930), pp.10-11, illus.

Merriam, C.W.

Analogy of past and present life, Vol.3, No.2 (July 1928), pp.3-4; Cougars not extinct on Kaibab,

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### Migration

- Vol.3, No.1 (June 1928), pp.3-4.
- Migration  
Grand Canyon--a barrier to reptiles? by E.D.McKee, Vol.5, No.10 (Aug.1931), pp.107-109.
- Mills,L.E.  
Mushrooms on the Kaibab, Vol.4, No.1 (Sept.1929), pp.3-4, illus.
- Mineralogy. See: Geology.
- Moomaw,B.F.  
Identification of the common pink mineral found near Phantom Ranch, Vol.6, No.5 (Mar.1932), pp.46-47.
- Museums  
Ancient pottery rebuilt by CCC's, by D.E.McHenry, Vol.8, No.10 (Jan. 1934), pp.235-237; An archaeological exhibit, by E.D.McKee, Vol. 6, No.1 (Nov.1931), pp.1-2; Grand Canyon visited by leading geologists, Vol.2, No.1 (June 30,1927), p.3; Yavapai Observation Station, by P.P.Patraw, Vol.4, No.5 (Mar. 1930), p.30.
- Nankoweap Valley  
Report of Nankoweap trip, by C.E. Resser, Vol.4, No.8 (June 1930), pp.48-49.
- Nichols,R.L.  
The carrying power of the Colorado River, Vol.4, No.11 (Sept. 1930), p.77; Fossils and what they tell, Vol.4, No.9 (July 1930), pp.59-60, illus.
- Obituaries  
Fred Johnson, Vol.3, No.8 (Feb. 1929), pp.3-4; Glen Ernest Sturdevant, Vol.3, No.8 (Feb. 1929), pp.2-3; Our sorrow, by M. R.Tillotson, Vol.3, No.8 (Feb. 1929), pp.1-2; Tribute to Professor H.V.Hibbard, Vol.3, No.7 (Jan. 1929), p.4.
- Patraw,P.M. See also: Mead,P.  
Broomrape, a root parasite, Vol. 5, No.7 (May 1931), p.66, illus.; Plant succession in Kaibab limestone, Vol.6, No.1 (Nov.1931), pp.

### Planets

- 6-9, illus.; Where our cacti grow, Vol.5, No.8 (June 1931), pp.71-72, illus.; A yellow lily, Vol.5, No. 10 (Aug.1931), p.105.
- Patraw,P.P.  
Flying deer, Vol.4, No.2 (Oct. 1929), pp.9-10; Planting fish eggs in Clear Creek, Vol.5, No.4 (Feb.1931), pp.34-35; Wild burros of the Grand Canyon, Vol.4, No.7 (May 31,1930), pp.43-45; Yavapai Observation Station, Vol.4, No.5 (Mar.1930), p.30.
- Patraw,P.P. and McKee,E.D.  
Special notes, Vol.6, No.3 (Jan. 1932), p.28.
- Patraw,P.P. and others  
Miscellaneous notes, Vol.5, No.5 (Mar.1931), pp.52-53.
- Personnel  
Miscellany, by L.Schellbach and others, Vol.8, No.8 (Nov.1933), pp.215-216; by R.R.Williamson and others, Vol.8, No.10 (Jan.1934), pp.237-238; Personnel notes, Vol. 6, No.4 (Feb.1932), p.38; Scientific work, by E.D.McKee, Vol.3, No.10 (June 1929), p.1.
- Petrified wood  
The story of a pebble, by C.Searl, Vol.5, No.1 (Nov.1930), p.1.
- Pioneers  
W.H.Edwards, a Colorado River pioneer, by D.E.McHenry, Vol.9, No. 11 (Feb.1935), pp.378-382, port., illus.
- Pipe Creek  
How Pipe Creek received its name, by H.Waesche, Vol.8, No.3 (June 1933), pp.155-156, illus.
- Place names  
The naming of the Grand Canyon, by B.H.McKee, Vol.8, No.8 (Nov. 1933), pp.210-212, illus.
- Planets  
Five planets in the autumn skies, by M.R.Tillotson, Vol.3, No.4 (Sept.30,1928), pp.3-4.

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Recent publication: The Phytoplankton of some Arizona pools and lakes, by W.R.Taylor and H.S. Colton, Vol.9, No.6 (Sept.1934), p.326.

#### Poetry

Canyon storm, by C.Lynch, Vol.7, No.5 (Aug.1932), p.49; Chipmunk, by C.Lynch, Vol.6, No.3 (Jan. 1932), p.29, illus.; Forest fire, by C.Lynch, Vol.5, No.11 (Sept. 1931), p.118, illus.

#### Powell expedition

Frederick S.Dellenbaugh, Vol.9, No.12 (Mar.1935), pp.389-390, illus.

#### Pueblo ruins

Miscellany, by G.Collins and others, Vol.6, No.2 (Dec.1931), pp.21-22, illus.

#### Rainbows

A lunar rainbow, by P.Kraus, Vol.8, No.6 (Sept.1933), p.190.

#### Research

Scientific work, by E.D.McKee, Vol.3, No.10 (June 1929), p.1.

#### Redburn, R.A.

The Colorado River, Vol.5, No.11 (Sept.1931), pp.110-114, illus., map; A coyote tale, Vol.7, No.12 (Mar.1933), pp.128-129, illus.; An experiment in Grand Canyon with the American pronghorn, Vol.6, No.1 (Nov.1931), pp.10-13, illus.; Food for the hawk, Vol.7, No.4 (July 1932), p.40, illus.; A Kaibab squirrel family, Vol.7, No.7 (Oct.1932), pp.66-68, illus.; Lizards, Vol.5, No.9 (July 1931), p.93; A mother squirrel transports its young, Vol.5, No.8 (June 1931), pp.80-81, illus.; Mountain lion poses for auto caravan, Vol.7, No.8 (Nov.1932), pp.85-86, illus.; Mountain sheep record, Vol.7, No.9 (Dec.1932), p.94, illus.; Pinyon pine nuts, Vol.

### Reptiles -- Lizards

5, No.12 (Oct.1931), pp.125-126;

The story of a forest fire, Vol.8, No.1 (Ap.1933), pp.136-137.

#### Redburn, R.A. and others

Field observations, Vol.5, No.8 (June 1931), pp.82-83, illus.

#### Redburn, R.A. and Russell, H.N.

The blue haze of the Grand Canyon, Vol.5, No.10 (Aug.1931), pp.98-100.

#### Reforestation

Notes on pinyon-juniper reforestation, by A.R.Croft, Vol.8, No.3 (June 1933), pp.151-154, illus.

#### Resser, C.E.

Report of Nankoweap trip, Vol.4, No.8 (June 1930), pp.48-49.

### REPTILES

#### Miscellaneous references

Grand Canyon--a barrier to reptiles? by E.D.McKee, Vol.5, No.10 (Aug.1931), pp.107-109, illus.; Herpetological problems at Grand Canyon National Park, by C.M. Bogert, Vol.7, No.6 (Sept.1932), pp.61-65, illus.

#### Gila monster

A few pets, by E.T.Scoven, Vol.1, No.5 (Aug.1926), p.7.

#### Lizards

Along the trail, Vol.4, No.4 (Sept.1929), pp.6-7; The blue-bellied lizard, by E.D.McKee, Vol.3, No.3 (Aug.1928), pp.3-4; Briefs, by E.W.Count, Vol.4, No.12 (Oct.31,1930), p.90; The chuckwalla, by B.Hastings, Vol.3, No.9 (May 31,1929), p.2; Diary of early spring, by E.D.McKee, Vol.8, No.1 (Ap.1933), pp.140, illus.; The elusive Sceloporus, by S.B.Jones, Vol.4, No.2 (Oct.1929), pp.12-13, illus.; Field observations, by R. Grater, Vol.9, No.7 (Oct.1934), p.337, illus.; by E.D.McKee and others, Vol.5, No.7 (May 1931),

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pp.69-70, illus.; Horned toads, by S.B.Jones, Vol.4, No.1 (Sept. 1929), pp.1-2; Indiscreet lizards, Vol.5, No.5 (Mar.1931), p.46; Lizard eat lizard, by D.E.McHenry, Vol.9, No.3 (June 1934), pp.285-287, illus.; Lizards, by R.A. Redburn, Vol.5, No.9 (July 1931), p.93; The next generation, by E. D.McKee, Vol.3, No.12 (Aug.1929), p.6, illus.; Odds and ends, Vol. 4, No.10 (Aug.30,1930), pp.69-71, illus.; A "Reptile story," by A. R.Croft, Vol.7, No.8 (Nov.1932), p.76; Some lizards of Grand Canyon, by E.W.Count, Vol.4, No.6 (Ap.1930), pp.36-37, illus.; Stubby, Vol.3, No.3 (Aug.1928), pp.1-2, illus.

Snakes

Snakes as mediators, by E.D.McKee, Vol.4, No.1 (Sept.1929), p.5.

Snakes, Gopher

Field observations, by D.E. McHenry and E.D.McKee, Vol.7, No. 7 (Oct.1932), pp.75-76; A gopher snake lunches, by E.W.Count, Vol. 5, No.9 (July 1931), pp.90-92, illus.; Odds and ends, Vol.4, No. 10 (Aug.30,1930), pp.69-71, illus.; Snake stories, by E.D.McKee, Vol.7, No.9 (Dec.1932), p.96, illus.; When enemies meet, by R. Grater, Vol.9, No.7 (Sept.1934), p.322.

Snakes, Ground

Two reptiles new to the Grand Canyon region, by C.M.Bogert, Vol.6, No.11 (Sept.1931), pp.115-116, illus.

Snakes, Patch-nose

Notelets, by E.D.McKee and others, Vol.5, No.6 (Ap.1931), p.61, illus.

Rattlesnakes

Field observations, by E.D.McKee, and others, Vol.7, No.5 (Aug. 1932), p.54; The Grand Canyon

Scoyen

rattlesnake, by E.D.McKee, Vol.4, No.6 (Ap.1930), p.40; Rattlesnakes on the canyon rim, by D.E.McHenry, Vol.8, No.8 (Nov.1933), pp.213-214, illus.; Report on rattlesnake specimens, Vol.8, No.11 (Feb. 1934), pp.248-249, maps; Two reptiles new to the Grand Canyon region, by C.M.Bogert, Vol.5, No.11 (Sept.1931), pp.115-116, illus.

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Roads and trails

On canyon trails, by E.D.McKee, Vol.8, No.5 (Aug.1933), pp.173-177, illus., map; Vol.8, No.6 (Sept.1933), pp.191-194, illus.; Regarding the Nankoweap Trail, by E.D.McKee, Vol.8, No.11 (Feb. 1934), p.246, bibliog.

Salamanders

Notes on Grand Canyon amphibians, by C.M.Bogert, Vol.7, No.12 (Mar. 1933), pp.119-120, illus.

Satterwhite, R.

A beaver home in Bright Angel Creek, Vol.9, No.3 (June 1934), pp.283-285, illus., bibliog.

Saturn

Saturn as a brilliant object in the southern sky, by M.R.Tillotson, Vol.3, No.2 (July 1932), pp.1-2.

Schellbach, L. and others

Miscellany, Vol.8, No.8 (Nov. 1933), pp.215-216.

Scientific expeditions

Archaeology, Vol.4, No.8 (June 1930), p.50; Report of Nankoweap trip, by C.E.Resser, Vol.4, No.8 (June 1930), pp.48-49; Wayside museum of archaeology expedition, by H.S.Gladwin, Vol.4, No.8 (June 1930), pp.50-51.

Scoyen, E.T.

An experimental job, Vol.1, No.10 (Feb.8,1927), pp.1-4; A few pets, Vol.1, No.5 (Aug.1926), p.7; Kai-

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Seagle

bab deer arrives on South Rim, Vol.1, No.6 (Sept.1926), pp.5-6; You're next, Mr.Duck! Vol.1, No.10 (Feb.8,1927), pp.4-5.

Seagle,E.F.

Exploration of Roaring Springs Cave, Vol.9, No.12 (Mar.1935), pp.391-394, illus., map.

Searl,C.C.

Beetles, Vol.5, No.3 (Jan.1931), pp.25-26, illus.; Building rocks, Vol.5, No.4 (Feb.1931), pp.40-41; A deeper canyon, Vol.6, No.3 (Jan.1932), p.26, illus.; Deer antlers, Vol.4, No.12 (Oct.1930), p.81; Dragon-flies at Grand Canyon, Vol.6, No.2 (Dec.1931), pp.16-18, illus.; Early November bird records, Vol.6, No.1 (Nov.1931), pp.3-6, illus.; The goal of Yavapai, Vol.5, No.3 (Jan.1931), pp.31-33; The herbarium of Grand Canyon National Park, Vol.6, No.4 (Feb.1932), pp.31-33, illus.; Insect notes, Vol.7, No.6 (Sept.1932), p.57; An insect observation, Vol.7, No.5 (Aug.1932), pp.51-52, illus.; An interesting bug, Vol.5, No.7 (May 1931), pp.64-65, illus.; Irregularities in climatic belts, Vol.4, No.10 (Aug.1930), pp.68-69; The lantern-fly, Vol.5, No.8 (June 1931), p.77; A new bird record, Vol.4, No.11 (Sept.1930), p.80; Sedimentary rocks, Vol.5, No.5 (Mar.1931), pp.45-46; Some beetles of Grand Canyon, Vol.5, No.6 (Ap.1931), pp.54-55, illus.; Some interesting bird records, Vol.5, No.4 (Feb.1931), pp.37-38; The story of a pebble, Vol.5, No.1 (Nov.1930), p.1; Vandals of the sand, Vol.6, No.5 (Mar.1932), pp.41-42, illus.; Weeds, Vol.7, No.4 (July 1932), pp.41-42, illus.

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Spring is near, by D.E.McHenry, Vol.6, No.5 (Mar.1932), pp.39-40, illus.; Springtime at the Grand Canyon, by G.E.Sturdevant, Vol.2, No.10 (Mar.31,1928), p.1.

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Heralds of summer, by E.D.McKee, Vol.3, No.10 (June 1929), p.6.

Seasons--Winter

An unseasonable season, by D.E.McHenry, Vol.8, No.12 (Mar.1934), pp.259-260.

Snow

Favorable snow conditions, Vol.3, No.8 (Feb.1929), p.6; Left-overs, Vol.4, No.7 (May 31,1930), p.48.

Soils

Soil of the South Rim--a query, by E.W.Count, Vol.3, No.10 (June 1929), p.6.

Soper,A.W.

An archaeological find, Vol.4, No.10 (Aug.1930), pp.66-67, illus.

Springs

Salt in the Tapeats sandstone, by G.E.Sturdevant, Vol.1, No.6 (Sept.1926), pp.3-5.

Stanton expedition

W.H.Edwards, a Colorado River pioneer, by D.E.McHenry, Vol.IX, No.11 (Feb.1935), pp.378-382, illus.

Stein,L.

Statistical report of bird-banding, Vol.9, No.2 (May 1934), pp.274-276.

Sturdevant, Glen Ernest (subject)

Glen Ernest Sturdevant, Vol.3, No.8 (Feb.1929), pp.2-3; Our sorrow, by M.R.Tillotson, Vol.3, No.8 (Feb.1929), pp.1-2.

Sturdevant,C.E.

American beavers..., Vol.1, No.5 (Aug.1926), pp.1-4; Bear? Vol.1, No.8 (Dec.1926), pp.4-5; Beaver at Phantom Ranch, Vol.3, No.8 (Feb.1929), pp.5-6; Calcite, Vol.1, No.8 (Dec.1926), pp.3-4, illus.;

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No.6 (Sept.1926), pp.3-5; Spring- time at the Grand Canyon, Vol.2, No.10 (Mar.31,1928), p.1; Theories relating to origin of the canyon, Vol.1, No.11 (Ap.20,1927), pp.2- 3; Third publication on Grand Canyon animal tracks, Vol.2, No. 10 (Mar.31,1928), p.4; The turkey buzzard..., Vol.1, No.8 (Dec. 1926), pp.1-2; A visit to an un- frequented part of the Grand Can- yon, Vol.2, No.9 (Feb.1928), pp. 1-7, illus.; What causes the can- yon walls to recede? Vol.3, No.4 (Sept.1928), pp.1-3, illus.; Wild goose, Vol.1, No.11 (Ap.20,1927), p.2; A winter resident, Vol.1, No. 11 (Ap.20,1927), p.1.

Sturdevant, Mrs.G.E.

Bird baths, Vol.3, No.4 (Sept. 1928), pp.4-5, illus.; Crossbill winters at Grand Canyon, Vol.2, No.7 (Dec.1927), p.3; Oswald, Vol. 3, No.3 (Aug.1928), pp.4-5; Ring- tailed cats, Vol.3, No.5 (Oct. 1928), pp.3-4.

Surveys

Additional Indian ruins of Clear Creek region, by A.L.Brown, Vol. 3, No.7 (Jan.1929), p.1; Addi- tional notes on the Tanner Trail trip, by E.D.McKee, Vol.5, No.12 (Oct.1931), pp.121-122, illus., map; A reconnaissance of the northeastern part of Grand Can- yon National Park, by G.E. Sturdevant, Vol.3, No.6 (Dec. 1928), pp.1-6; A trip down Tanner Trail, by V.Bailey, Vol.5, No.12 (Oct.1931), pp.119-120, illus.

Sykes,G.

An historical record, Vol.5, No. 12 (Oct.1931), pp.123-124.

Taylor,W.R. and Colton,H.S.

Recent publication: The Phyto- plankton of some Arizona pools and lakes, Vol.9, No.6 (Sept. 1934), p.326.

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Technical

Technical bulletin

Technical bulletins, Vol.7, No.3 (June 1932), pp.31-52.

Thompson, B.H.

Toroweap: the new Grand Canyon National Monument, Vol.8, No.4 (July 1933), pp.162-169, illus.

Tillotson, M.R.

"The explorer," Vol.5, No.3 (Jan. 1931), pp.21-24; Five planets in the autumn skies, Vol.3, No.4 (Sept.30, 1928), pp.3-4; Grand Canyon illuminated by Aurora Borealis, Vol.3, No.2 (July 1928), p.2; Our sorrow, Vol.3, No.8 (Feb. 1929), pp.1-2; Personnel notes, Vol.6, No.4 (Feb.1932), p.37; Saturn as a brilliant object in the southern sky, Vol.3, No.2 (July 1928), pp.1-2.

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A Horned toad, by S.B.Jones, Vol.4, No.2 (Oct.1929), p.14, illus.; Notes on Grand Canyon amphibians, by C.M.Bogert, Vol.7, No.12 (Mar. 1933), pp.119-120, illus.; Occurrence of the spadefoot toad in Grand Canyon National Park, Vol.7, No.7 (Oct.1932), p.70, illus.

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Toroweap: the new Grand Canyon National Monument, by B.H. Thompson, Vol.8, No.4 (July 1933), pp.162-169, illus.

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The rock-loving alumroot, by P. Mead, Vol.5, No.5 (Mar.1931), p.47, illus.

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Deer browse on cactus, by A.R. Croft, Vol.7, No.9 (Dec.1932), p.

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95, illus.; Our cactuses, by P. Mead, Vol.4, No.6 (Ap.1930), pp.38-40, illus.; Where our cacti grow, by P.M.Patraw, Vol.5, No.8 (June 1931), pp.71-72, illus.

Cat's-claw

Cat's-claw (*Acacia greggii*), by G.E.Sturdevant, Vol.1, No.8 (Dec. 1926), pp.2-3, illus.

Ecology of trees, shrubs, and plants

Lessons from the Grand Canyon, by G.E.Sturdevant, Vol.3, No.7 (Jan. 1929), pp.2-3; A living conquest, by E.W.Count, Vol.4, No.9 (July 1930), pp.54-58; Notes on the Yaki Point burn, by A.R.Croft, Vol.7, No.7 (Oct.1932), pp.71-73, illus.; Plant succession in Kaibab limestone, by P.M.Patraw, Vol.6, No.1 (Nov.1931), pp.6-9, illus.

Goosefoot

A winter-blooming goosefoot, by P.Mead, Vol.5, No.1 (Nov.1930), pp.10-11, illus.

Mistletoe

Does mistletoe kill the trees at Grand Canyon? by D.E.McHenry, Vol.9, No.5 (No.6) (Aug.1934), pp.305-309, illus.

Mustard

Prince's plume, a new mustard record, by D.E.McHenry, Vol.7, No.2 (May 1932), pp.16-18, illus.

Sage

Sagebrush in Grand Canyon National Park, by D.E.McHenry, Vol.7, No.1 (Ap.1932), pp.6-7, illus.

Shrubs

Manzanita on the South Rim, by E. W.Count, Vol.3, No.10 (June 1929), p.2.

Thistle, Russian

Russian thistle, by E.W.Count, Vol.6, No.2 (Dec.1931), p.18, illus.

Tree rings

Notelets, by E.D.McKee and others, Vol.5, No.6 (Ap.1931), p.61, illus.

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Aspen

Quaking aspen at Grand Canyon, by D.E.McHenry, Vol.7, No.9 (Dec. 1932), pp.87-90, illus.; Quaking aspen--its future in the park, by D.E.McHenry, Vol.9, No.10 (Jan. 1935), pp.361-365, illus.

Cedar

Oh, cedar! by S.B.Jones, Vol.4, No.7 (May 31,1930), pp.42-43.

Cottonwood

Cottonwood (*Populus fremontii*), Vol.5, No.4 (Feb.1931), p.38; Diary of early spring, by E.D. McKee, Vol.8, No.1 (Ap.1933), p. 140, illus.

Ironwood

Ironwood (Knowlton's hornbeam), by G.E.Sturdevant, Vol.3, No.2 (July 1928), pp.2-3.

Juniper

Indian uses of juniper in the Grand Canyon region, by D.E. McHenry, Vol.9, No.1 (Ap.1934), pp.261-271; Miscellany, by E.D. McKee, Vol.6, No.1 (Nov.1931), p. 13.

Oak

Gambel oaks at Grand Canyon, by D.E.McHenry, Vol.7, No.12 (Mar. 1933), pp.124-125, illus.

Pine

The "Burro Spring" pine, by A.R. Croft, Vol.7, No.11 (Feb.1933), p.113, illus.; Lightning-scarred trees, by S.B.Jones, Vol.3, No.12 (Aug.1929), p.5; Pinyon puzzle, by E.W.Count, Vol.4, No.5 (Mar. 1930), p.33.

Pines--Cones and seeds of

The 1933 "pine nut" crop, by A.R. Croft, Vol.7, No.6 (Sept.1932), pp.58-60, illus.; Pinon nuts, by G.E.Sturdevant, Vol.2, No.4 (Sept. 1927), p.3; Pinyon nuts as bird feed, by E.D.McKee, Vol.9, No.2 (May 1934), pp.272-273; Pinyon

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pine nuts, by R.A.Redburn, Vol.5, No.12 (Oct.1931), pp.125-126; Pinyon puzzle, by E.W.Count, Vol. 4, No.5 (Mar.1930), p.33; Results of a large crop of pinon nuts, Vol.2, No.12 (May 31,1928), p.3.

Pines--Needles

Unconventional pines, by S.B. Jones, Vol.4, No.4 (Dec.1929), p. 25, illus.

Redbuds

Arizona redbud, Vol.1, No.12 (May 1927), p.4.

Spruce

Lightning-scarred trees, by S.B. Jones, Vol.5, No.12 (Aug.1929),p.5.

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Trilobites

Odds and ends, Vol.4, No.8 (June 1930), p.56.

Tyler,C.F.

Bats, Vol.5, No.9 (July 1931), pp.84-86, illus.

Tyler,C.F. and Williamson,R.R.

Trout propagation in Grand Canyon National Park, Vol.7, No.2 (May 1932), pp.11-15, illus.

U.S.exploring expeditions

"The Explorer," by M.R.Tillotson, Vol.5, No.3 (Jan.1931), pp.21-24.

Van Gundy,C.E.

Some observations of the Unkar group of the Grand Canyon Algonkian, Vol.9, No.8 (Nov.1934), pp. 338-349, illus., map.

Waesche,H.H.

The Anita Copper Mine, Vol.7, No. 11 (Feb.1933), pp.108-112, illus.; A baffling piece of plate glass, Vol.7, No.6 (Sept.1932), pp.55-57, illus.; Blue ribbon minerals, Vol. 5, No.10 (Aug.1931), pp.95-98, illus.; Comparative porosity of rock formations in Grand Canyon, Vol.6, No.4 (Feb.1932), pp.35-37; Feldspars of Phantom Ranch area,

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Vol.8, No.6 (Sept.1933), pp.188-189, illus.; The Grand View copper project, Vol.8, No.12 (Mar. 1934), pp.250-258, illus., map, bibliog.; How Pipe Creek received its name, Vol.8, No.3 (June 1933), pp.155-156, illus.; A summary of Grand Canyon minerals, Vol.7, No.5 (Aug.1932), pp.44-48, illus., bibliog.; Yesterdays on the Kaibab Trail and Phantom Ranch, Vol.8, No.8 (Nov.1933), pp. 206-208, illus.

Water supply

Exploration of Roaring Springs Cave, by E.F.Seagle, Vol.9, No.12 (Mar.1935), pp.391-394, illus., map; Geological and wildlife observations, by E.D.McKee, Vol.5, No.1 (Nov.1930), pp.3-10, illus.

Waterways

How Pipe Creek received its name, by H.Waesche, Vol.8, No.3 (June 1933), pp.155-156, illus.

Wayside museum

Wayside museum of archaeology expedition, by H.S.Gladwin, Vol.4, No.8 (June 1930), pp.50-51.

Weather

Analogy of past and present life, by C.W.Merriam, Vol.3, No.2 (July 1928), pp.3-4; Long-period rain gauges, by E.D.McKee, Vol.9, No.3

Yavapai

(June 1934), pp.291-293, illus.; Meteorological data, Vol.9, No.5 (No.6) (Aug.1934), p.315; Miscellany, by P.Kraus, Vol.8, No.7 (Oct.1933), p.205; A siege of fair weather, by D.E.McHenry, Vol.9, No.9 (Dec.1934), pp.357-360; When winter comes, by E.D.McKee, Vol. 6, No.3 (Jan.1932), p.27, illus.

Weeds

Weeds, by C.C.Searl, Vol.7, No.4 (July 1932), pp.41-42, illus.

White,D.

The flora of the Hermit shale in Grand Canyon, Vol.4, No.4 (Dec. 1929), pp.24-25.

Widforss,Gunnar

Widforss, Vol.9, No.9 (Dec.1934), pp.355-356, illus.

Williamson,R.R. and others

Miscellany, Vol.8, No.10 (Jan. 1934), pp.237-238.

Williamson,R.R. and Tyler,C.F.

Trout propagation in Grand Canyon National Park, Vol.7, No.2 (May 1932), pp.11-15, illus.

Wind,R.G.

Butterflies of the Grand Canyon, Vol.4, No.12 (Oct.1930), pp.81-84.

Yavapai Station

The Yavapai Station, Vol.4, No.1 (Sept.1929), p.7.

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