

**A GENERAL INDEX  
TO  
ZION-BRYCE NATURE NOTES  
1929-1936**

---

**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**

**A GENERAL INDEX**  
**TO**  
**ZION-BRYCE NATURE NOTES**  
**1929-1936**

---

**Compiled under the direction of**  
**Hazel Hunt Voth**

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

**1938**

## ACKNOWLEDGMENT

This volume was prepared by Works Progress Administration Projects.

Official Project numbers 65-3-4349 and 265-03-7010 ( Work Projects 4454 and 7506 ), District Eight, California.

Sponsored by the United States Department of Interior for the Western Museum Division of National Park Service.

## FOREWORD

This is the Zion--Bryce 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 21,300 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 525 cards in the above-mentioned Index refer to Bryce Canyon and Zion National Parks. 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 Animals, Geology, and others, have been loosely grouped together for convenience.

However, in cases where there happened to be only three or four references to a certain topic in the Nature Notes of a particular park, those references have been distributed under their respective headings 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.

ZION--BRYCE NATURE NOTES

Administration

Administration of recreational areas  
Newly acquired areas--how administered, by C.C.Presnall, Vol.6, No. 4 (July-Aug.1934), p.40.

Anderson, J.C.

Shinarump conglomerate as it occurs in Zion, Vol.7, No.2 (June 1935), pp.11-12, illus.

ANIMALS

Miscellaneous references

Auto death toll, by A.M.Woodbury, Vol.2, No.1 (June 1930), pp.3-4;  
Mammals of Zion National Park: a preliminary check list, by C.C. Presnall and G.Y.Croft, Vol.6, No. 2 (Mar.-Ap.1934), pp.19-25, illus.

Badgers--Food

Miscellaneous animal notes, Vol.4, No.3 (June 1932), p.6.

Bassarisk

Along Nature's highway, Vol.5, No. 2 (June 1933), p.7.

Bears

Along Nature's highway, by C.C. Presnall and W.D.Chick, Jr., Vol.8, No.2 (June 1936), p.22.

Bighorn. See: Mountain sheep.

Chipmunks

Along Nature's highway, by H.Grant-ham and others, Vol.7, No.2 (June 1935), pp.16-17; by C.C.Presnall, Vol.5, No.5 (Sept.-Oct.1933), p.7; Vol.7, No.1 (Mar.1935), pp.8-10.

Chipmunks--Food

Along Nature's highway, by H.Grant-ham and others, Vol.7, No.3 (Sept. 1935), pp.26-27.

Chuckwalla

The chuckwalla, Vol.4, No.1 (Ap. 1932), p.5, illus.; The live reptile exhibit, Vol.4, No.1 (Ap. 1932), p.6.

Civet cats. See: Ringtailed cats.

Animals--Gila monsters

Cougars

Along Nature's highway, by C.C. Presnall and W.D.Chick, Jr., Vol.8, No.2 (June 1936), p.22; The cougar, Vol.1, No.3 (Oct.1929), p.1; A cougar cornered, by W.Ruesch, Vol. 1, No.3 (Oct.1929), pp.3-4; Cougar kittens in captivity, by D.J.Jolley, Vol.3, No.1 (June 1931), p.2; Cowardice or intelligence? by E.T. Scoyen, Vol.1, No.3 (Oct.1929), p. 6; Face to face with cougars, by D.J.Jolley, Vol.1, No.3 (Oct.1929), pp.5-6; I was gone too, by J.W. Thornton, Vol.1, No.3 (Oct.1929), pp.4-5; The killer, by J.W.Thornton, Vol.1, No.3 (Oct.1929), p.3; Uncle Jim Owen on cougar, by A.M. Woodbury, Vol.1, No.3 (Oct.1929), pp.2-3.

Coyotes

Cowardice or intelligence? by E.T. Scoyen, Vol.1, No.3 (Oct.1929), p.6.

Deer

Along Nature's highway, Vol.5, No. 1 (May 1933), pp.6-7; Vol.5, No.2 (June 1933), p.7; Deer in Zion, by S.D.Durrant, Vol.3, No.1 (June 1931), p.6; Deer killed by ticks or mites, by H.Russell, Vol.1, No. 1 (Aug.1929), p.5; A deer slide, by A.M.Woodbury, Vol.1, No.1 (Aug. 1929), p.4; Jerry, Vol.4, No.1 (Ap. 1932), p.4; Miscellaneous notes, Vol.4, No.1 (Ap.1932), p.9.

Deer--Protection

Zion deer, by H.Russell, Vol.2, No. 4 (Sept.1930), pp.6-7.

Elk

Elk formerly in the Paria Valley, by M.Cope, Vol.4, No.3 (June 1932), p.7, illus.

Gila monsters

The gila monster and its venom, by C.C.Presnall, Vol.7, No.4 (Dec. 1935), pp.35-36, bibliog.; The rep-

Animals--Gophers

tiles of Zion and Bryce Canyon National Parks, by C.C.Presnall, Vol. 7, No.4 (Dec.1935), pp.28-31, bibliog.

Gophers

Along Nature's highway, by C.C. Presnall, Vol.7, No.1 (Mar.1935), pp. 8-10.

Lizards

Along Nature's highway, Vol.5, No. 2 (June 1933), p.7; The amphibians and reptiles of Bryce Canyon National Park, by K.E.Weight, Vol.4, No.4 (July 1932), p.6; The live reptile exhibit, Vol.4, No.1 (Ap. 1932), p.6; A racerunner lizard "throws" its tail, by A.M.Woodbury, Vol.1, No.1 (Aug.1929), p.4.

Lynxes

Canada lynx killed by auto, by G.Y. Croft, Vol.5, No.2 (June 1933), p. 2, illus.

Marmots

Miscellaneous animal notes, Vol.4, No.3 (June 1932), p.6; Mr. Woodchuck poses for a picture, by M. Cope, Vol.2, No.3 (Aug.1930), p.2.

Mice, Grasshopper

Along Nature's highway, Vol.8, No. 4 (Dec.1936), pp.42-43.

Mountain lions. See: Cougars.

Mountain sheep

Along Nature's highway, by C.C. Presnall, Vol.6, No.2 (Mar.-Ap. 1934), p.26; Vol.7, No.1 (Mar.1935), pp.8-10; Miscellaneous animal notes, Vol.4, No.3 (June 1932), p.6; Rocky Mountain sheep in captivity, by D. J.Jolley, Vol.5, No.1 (May 1933), p.5, illus.; Status of mountain sheep in Zion National Park, Vol.5, No.2 (June 1933), p.1, illus.

Porcupines

Miscellaneous animal notes, Vol.4, No.3 (June 1932), p.6; Western yellow pines injured by porcupines, by K.E.Weight, Vol.4, No.5 (Aug. 1932), pp.6-7, illus.

Pumas. See: Cougars.

Squirrels

Rabbits

Along Nature's highway, Vol.8, No. 4 (Dec.1936), pp.42-43.

Raccoons

The raccoon..., by H.Russell, Vol. 5, No.1 (May 1933), p.3, illus.

Ring-tailed cats

Miscellaneous animal notes, Vol.4, No.3 (June 1932), p.6; Ring-tail cat, by G.Y.Croft, Vol.4, No.5 (Aug.1932), p.6, illus.

Salamanders

Amphibians and reptiles of Bryce Canyon National Park, by K.E.Weight, Vol.4, No.4 (July 1932), p.6.

Skunks

Oscar, the friendly skunk, by M. Cope, Vol.4, No.2 (May 1932), p.7, illus.

Snails

The Zion snail..., by A.M.Woodbury, Vol.2, No.4 (Sept.1930), p.6.

Squirrels

Along Nature's highway, Vol.5, No. 1 (May 1933), pp.6-7; Vol.8, No.4 (Dec.1936), pp.42-43; by H.Grantham and others, Vol.7, No.3 (Sept. 1935), pp.26-27; by C.C.Presnall, Vol.5, No.5 (Sept.-Oct.1933), p.7; Vol.7, No.1 (Mar.1935), pp.8-10; The camp robbers, by J.W.Thornton, Vol.2, No.3 (Aug.1930), p.5; Do animals react to music? by J.W. Thornton, Vol.3, No.3 (Aug.1931), p.19; The dog gets a cussing, by J.W.Thornton, Vol.2, No.4 (Sept. 1930), pp.7-8; The gray rock squirrel hunting, by A.M.Woodbury, Vol. 5, No.2 (June 1933), pp.3-4, illus.; Nest of the gray rock squirrel, by A.M.Woodbury, Vol.2, No.3 (Aug. 1930), p.3, illus.; Squawbush and squawberries, by A.M.Woodbury, Vol. 1, No.2 (Sept.1929), p.4.

Squirrels--Food habits

Along Nature's highway, by A.M. Woodbury, Vol.5, No.3 (July 1933), p.9.

Squirrels--Hibernation

The gray rock squirrel, by H.Rus-

Animals--Toads

sell, Vol. 2, No. 3 (Aug. 1930), pp. 3-4.

Toads

Amphibians and reptiles of Bryce Canyon National Park, by K.E. Weight, Vol. 4, No. 4 (July 1932), p. 6; The desert toad in seepage pools, Vol. 3, No. 1 (June 1931), pp. 5-6; Increases at the zoo, by A.M. Woodbury, Vol. 1, No. 2 (Sept. 1929), pp. 4-5; The live reptile exhibit, Vol. 4, No. 1 (Ap. 1932), p. 6; The Sonoran toad..., by H. Russell, Vol. 4, No. 5 (Aug. 1932), p. 3; Two garter snakes and a toad, by A.M. Woodbury, Vol. 2, No. 2 (July 1930), p. 3.

Weasels

Along Nature's highway, by C.C. Presnall, Vol. 5, No. 5 (Sept.-Oct. 1933), p. 7.

Wolves

Cowardice or intelligence? by E.T. Scoyen, Vol. 1, No. 3 (Oct. 1929), p. 6.

(End of section, Animals)

Archeological expeditions

Summary of investigations by Zion National Park archeological party, by B.W. Wetherill, Vol. 6, No. 1 (Jan.-Feb. 1934), pp. 1-9, illus., bibliog.

Balkin, S.

From one of our friends, Vol. 2, No. 4 (Sept. 1930), p. 2.

Behunin, Mrs. T.J.

How bread and skirts were made by the Indians, Vol. 2, No. 4 (Sept. 1930), pp. 4-5.

BIRDS

Bird-banding

Bird-banding experiences, by H. Grantham, Vol. 7, No. 1 (Mar. 1935), pp. 1-3; Bird-banding in 1935-36, Vol. 8, No. 2 (June 1936), pp. 18-21.

Blackbirds

Language among birds, by A.M. Wood-

Birds--Hawks

bury, Vol. 2, No. 1 (June 1930), p. 2.

Bluebirds

Along Nature's highway, by C.C. Presnall, Vol. 5, No. 5 (Sept.-Oct. 1933), p. 7.

Buzzards, Turkey

Birds along the Narrows Trail, by S.D. Durrant, Vol. 3, No. 3 (Aug. 1931), pp. 23-24.

Chats

Squawbush and squawberries, by A.M. Woodbury, Vol. 1, No. 2 (Sept. 1929), p. 4.

Chickadees

Along Nature's highway, Vol. 8, No. 4 (Dec. 1936), pp. 42-43; by C.C. Presnall, Vol. 5, No. 5 (Sept.-Oct. 1933), p. 7.

Crossbills

Along Nature's highway, by C.C. Presnall, Vol. 5, No. 5 (Sept.-Oct. 1933), p. 7.

Doves

Along Nature's highway, Vol. 5, No. 1 (May 1933), pp. 6-7.

Eagles

Birds along the Narrows Trail, by S.D. Durrant, Vol. 3, No. 3 (Aug. 1931), pp. 23-24; The golden eagle, by A.M. Woodbury, Vol. 4, No. 5 (Aug. 1932), p. 1.

Egrets

Birds seek shelter in Zion Canyon during storm, by G.Y. Croft, Vol. 5, No. 1 (May 1933), p. 2, illus.

Grosbeaks

Along Nature's highway, by C.C. Presnall, Vol. 6, No. 2 (Mar.-Ap. 1934), p. 26; Birds along the Narrows Trail, by S.D. Durrant, Vol. 3, No. 3 (Aug. 1931), pp. 23-24; Birds seek shelter in Zion Canyon during storm, by G.Y. Croft, Vol. 5, No. 1 (May 1933), p. 2, illus.; Squawbush and squawberries, by A.M. Woodbury, Vol. 1, No. 2 (Sept. 1929), p. 4.

Hawks

Along Nature's highway, Vol. 5, No. 1 (May 1933), pp. 6-7; Vol. 5, No. 2 (June 1933), p. 7; A battle within

Birds--Herons

the temple, by J.W.Thornton, Vol.2, No.3 (Aug.1930), pp.4-5.

Herons

Along Nature's highway, Vol.5, No. 1 (May 1933), pp.6-7.

Hummingbirds

Aerial antics of hummingbirds, by A.M.Woodbury, Vol.2, No.2 (July 1930), p.3; Along Nature's highway, by C.C.Presnall and P.P.Patraw, Vol.5, No.4 (Aug.1933), p.9, illus.; Birds along the Narrows Trail, by S.D.Durrant, Vol.3, No.3 (Aug.1931), pp.23-24; Miscellaneous animal notes, Vol.4, No.3 (June 1932), p.6.

Hummingbirds--Eggs and nests

Along Nature's highway, by C.C. Presnall, Vol.6, No.2 (Mar.-Ap. 1934), p.26.

Jays

Along Nature's highway, Vol.5, No. 1 (May 1933), pp.6-7; by C.C.Presnall, Vol.5, No.5 (Sept.-Oct.1933), p.7; Birds along the Narrows Trail, by S.D.Durrant, Vol.3, No.3 (Aug. 1931), pp.23-24; Birds seek shelter in Zion Canyon during storm, by G.Y.Croft, Vol.5, No.1 (May 1933), p.2, illus.

Juncos

Along Nature's highway, Vol.5, No. 1 (May 1933), pp.6-7; Flocking habits of wintering juncos, by C.C. Presnall and H.Grantam, Vol.7, No. 1 (Mar.1935), pp.4-7, map.

Nuthatches

Along Nature's highway, by H.Grantam and others, Vol.7, No.2 (June 1935), pp.16-17; by C.C.Presnall, Vol.5, No.1 (Mar.1935), pp.8-10; Vol.5, No.5 (Sept.-Oct.1933), p.7.

Ravens

Miscellaneous notes, Vol.4, No.1 (Ap.1932), p.9.

Road runners

Along Nature's highway, by H.Grantam and others, Vol.7, No.3 (Sept. 1935), pp.26-27; Some of the com-

Thrushes

mon birds of Zion National Park, by G.Y.Croft, Vol.4, No.3 (June 1932), pp.4-5, illus.

Robins

Along Nature's highway, Vol.5, No. 1 (May 1933), pp.6-7; by C.C.Presnall, Vol.5, No.5 (Sept.-Oct.1933), p.7; Birds along the Narrows Trail, by S.D.Durrant, Vol.3, No.3 (Aug. 1931), pp.23-24.

Sparrows

Along Nature's highway, Vol.V, No. 1 (May 1933), pp.6-7; Birds seek shelter in Zion Canyon during storm, by G.Y.Croft, Vol.5, No.1 (May 1933), p.2, illus.; Some of the common birds of Zion National Park, by G.Y.Croft, Vol.4, No.3 (June 1932), pp.4-5, illus.

Sparrows--Eggs and nests

Along Nature's highway, by C.C. Presnall and P.P.Patraw, Vol.5, No. 4 (Aug.1933), p.9, illus.

Swallows

Birds along the Narrows Trail, by S.D.Durrant, Vol.3, No.3 (Aug.1931), pp. 23-24.

Swifts

Birds along the Narrows Trail, by S.D.Durrant, Vol.3, No.3 (Aug.1931), pp. 23-24.

Swifts--Eggs and nests

Along Nature's highway, by H.Grantam and others, Vol.7, No.3 (Sept. 1935), pp.26-27.

Tanagers

Birds seek shelter in Zion Canyon during storm, by G.Y.Croft, Vol.5, No.1 (May 1933), p.2, illus.; Some of the common birds of Zion National Park, by G.Y.Croft, Vol.4, No.3 (June 1932), pp.4-5, illus.

Thrushes

Along Nature's highway, by H.Grantam and others, Vol.7, No.2 (June 1935), pp.16-17; by C.C.Presnall, Vol.5, No.5 (Sept.-Oct.1933), p.7; Birds seek shelter in Zion Canyon



Birds--Towhees

during storm, by G.Y.Croft, Vol.5, No.1 (May 1933), p.2, illus.

Towhees

Birds along the Narrows Trail, by S.D.Durrant, Vol.3, No.3 (Aug.1931), pp.23-24; Birds seek shelter in Zion Canyon during storm, by G.Y. Croft, Vol.5, No.1 (May 1933), p.2, illus.

Towhees

Birds along the Narrows Trail, by S.D.Durrant, Vol.3, No.3 (Aug.1931), pp. 23-24.

Warblers

Along Nature's highway, Vol.5, No. 1 (May 1933), pp.6-7; by C.C.Presnall, Vol.5, No.5 (Sept.-Oct.1933), p.7.

Water ouzels

Birds along the Narrows Trail, by S.D.Durrant, Vol.3, No.3 (Aug.1931), pp.23-24; Birds seek shelter in Zion Canyon during storm, by G.Y. Croft, Vol.5, No.1 (May 1933), p.2, illus.; Water ouzel feeds self and young, by B.H.Thompson, Vol.3, No. 1 (June 1931), p.2.

Wrens

Birds along the Narrows Trail, by S.D.Durrant, Vol.3, No.3 (Aug.1931), pp.23-24; The canyon wren hunting, by A.M.Woodbury, Vol.3, No.3 (Aug. 1931), pp.21-22; Some of the common birds of Zion National Park, by G.Y.Croft, Vol.4, No.3 (June 1932), pp.4-5, illus.

(End of section, Birds)

Book reviews

Book notes, by C.C.Presnall, Vol.6, No.2 (Mar.-Ap.1934), p.27; New publications issued, Vol.5, No.3 (July 1933), p.7.

Cannon, G.G.

Camp laboratory, Vol.6, No.1 (Jan.-Feb.1934), pp.10-12, illus.

Cathedral Mountain

Another peak climbed, by J.W.Thorn-

Croft

ton, Vol.3, No.3 (Aug.1931), p.17.

Cedar Breaks National Monument

Cedar Breaks National Monument, by G.Y.Croft, Vol.6, No.4 (July-Aug. 1934), pp.38-40, illus.; Newly acquired areas--how administered, by C.C.Presnall, Vol.6, No.4 (July-Aug.1934), p.40.

Chick, W.D., Jr.

Forest insects in Zion, Bryce, and Cedar Breaks, Vol.3, No.2 (June 1936), pp.13-17.

Christiansen, F.W.

Erosion by flood waters at Bryce, Vol.8, No.4 (Dec.1936), pp.33-35.

Cliff dwellings

Cliff dwellings on the Parunuweap, by B.W.Rozelle, Vol.4, No.2 (May 1932), pp.1-2, illus.

Cope, M.

Bryce Canyon in a storm, Vol.2, No. 3 (Aug.1930), p.2; Elk formerly in the Paria Valley, Vol.4, No.3 (June 1932), p.7, illus.; Friends until death, Vol.2, No.3 (Aug.1930), p.6; Mr. Woodchuck poses for a picture, Vol.2, No.3 (Aug.1930), p.2; Oscar, the friendly skunk, Vol.4, No.2 (May 1932), p.7, illus.; The snow flea, Vol.4, No.1 (Ap.1932), p.9.

Cotton

Cotton growing in Utah's Dixie, by H.L.Reid, Vol.4, No.6 (Sept.1932), pp.2-4.

Croft, G.Y.

Alluvial fans and talus cones, Vol. 4, No.6 (Sept.1932), p.7; Birds seek shelter in Zion Canyon during storm, Vol.5, No.1 (May 1933), p.2, illus.; Canada lynx killed by auto, Vol.5, No.2 (June 1933), p.2, illus.; Cedar Breaks National Monument, Vol.6, No.4 (July-Aug.1934), pp.38-40, illus.; Cross-bedding in Navajo sandstone, Vol.5, No.3 (July 1933), pp.6-7; The geological column of Zion and Bryce, Vol.4, No.5 (Aug.1932), pp.5-6; Limestone lenses in Navajo sandstone, Vol.5, No.4

Croft (Continued)

(Aug.1933), p.6; Poison ivy, Vol.5, No.1 (May 1933), p.4, illus.; Ring-tail cat, Vol.6, No.5 (Aug.1932), p.6, illus.; Some of the common birds of Zion National Park, Vol.4, No.3 (June 1932), pp.4-5, illus.; Southern limit of glaciation in Utah, Vol.8, No.3 (Sept.1936), pp.24-25.

Dennett, Mrs. John

Pioneer woman outwits Indian, by H. L.Reid, Vol.3, No.3 (Aug. 1931), pp. 18-19.

Durrant, S.D.

Animals and erosion, Vol.3, No.4 (Sept.1931), pp.30-31; Birds along the Narrows Trail, Vol.3, No.3 (Aug. 1931), pp.23-24; Deer in Zion, Vol. 3, No.1 (June 1931), p.6; The Irony of Nature's laws, Vol.3, No.3 (Aug. 1931), p.22.

Ecology

Character of the forest cover in Zion Canyon, by C.C.Presnall, Vol. 5, No.4 (Aug.1933), pp.6-7, illus.; Environmental factors in Bryce Canyon forests, by K.E.Weight, Vol.6, No.3 (May-June 1934), pp.23-30, illus.; Revegetation of the rims of Zion, by D.J.Jolley, Vol.4, No.2 (May 1932), pp.8-9, illus.; The stadium pool, by A.M.Woodbury, Vol.4, No.6 (Sept.1932), p.8; Successions in Zion, Vol.2, No.4 (Sept.1930), p.3.

Educational work

A great year, Vol.2, No.4 (Sept. 1930), p.1; Introducing Zion and Bryce Canyon Nature Notes, by E.T. Scoyen, Vol.1, No.1 (Aug.1929), pp. 1-2; Miscellaneous notes, Vol.4, No.1 (Ap.1932), p.9; Our educational program, by J.W.Thornton, Vol.3, No.1 (June 1931), p.1.

FLOWERS

Cardinal flower

The hanging gardens of Zion, by J.

Fossils

W.Thornton, Vol.2, No.1 (June 1930), p.5.

Columbine

The hanging gardens of Zion, by J. W.Thornton, Vol.2, No.1 (June 1930), p.5; Robbing the world of beauty, by J.W.Thornton, Vol.1, No.2 (Sept. 1929), p.3.

Datura

Along Nature's highway, by H.Grant-ham and others, Vol.7, No.3 (Sept. 1935), pp.26-27; The datura, by Mrs.P.P.Patraw, Vol.4, No.6 (Sept. 1932), pp.1-2; by C.C.Presnall, Vol.7, No.3 (Sept.1935), pp.18-19, illus.; Rocks of ages, by D.J. Jolley, Vol.IV, No.2 (May 1932), p.3, illus.; The sacred datura among the Zuni, by H.L.Reid, Vol.7, No.3 (Sept.1935), pp.22-25.

Ethnobotany

Ethnobotanical notes, by K.E.Weight, Vol.7, No.3 (Sept.1935), pp.20-21.

Lupine

Along Nature's highway, Vol.5, No. 1 (May 1933), pp.6-7.

Monkey flower

The hanging gardens of Zion, by J. W.Thornton, Vol.2, No.1 (June 1930), p.5.

Pentstemon

Along Nature's highway, Vol.5, No. 1 (May 1933), pp.6-7.

Shooting star

The hanging gardens of Zion, by J. W.Thornton, Vol.2, No.1 (June 1930), p.5.

Spiderwort

Along Nature's highway, Vol.5, No. 1 (May 1933), pp.6-7.

Zion lily. See: Datura.

(End of section, Flowers)

Forest fires

Fire caused by rock slide, by A.M. Woodbury, Vol.1, No.1 (Aug.1929), p.5.

Fossils

Are fossils being formed? by J.W. Thornton, Vol.3, No.3 (Aug.1931), p.20; Note on fossils from Bryce

Geology--Erosion

Canyon, by L.E.Wilson, Vol.7, No.2 (June 1935), p.13.

GEOLOGY

Erosion

Animals and erosion, by S.D.Durrant, Vol.3, No.4 (Erosion number), (Sept.1931), pp.30-31; The carving of Zion Canyon, by A.M.Woodbury, Vol.3, No.4 (Sept.1931), p.26; Characteristic erosion in Jurassic sandstone, Vol.4, No.2 (May 1932), pp.4-6, illus.; Erosion agents of Bryce Canyon, by K.E.Weight, Vol.3, No.4 (Sept.1931), pp.27-28; Erosion by flood waters at Bryce, by F.W.Christiansen, Vol.8, No.4 (Dec. 1936), pp.33-35; Erosion of Bryce Canyon, by K.E.Weight, Vol.3, No.1 (June 1931), p.3; Erosion--then and now, by A.M.Woodbury, Vol.7, No.2 (Sept.1929), pp.2-3; Erosion uncovers tracks of the past, by A.M.Woodbury, Vol.3, No.4 (Sept.1931), p.33; Man's part in erosion, by H.L.Reid, Vol.3, No.4 (Sept.1931), p.32; Plants and erosion, by J.W.Thornton, Vol.3, No.4 (Sept.1931), pp.28-29; Red Arch Mountain, by J.W.Thornton, Vol.2, No.4 (Sept.1930), pp.2-3; Slab erosion in widening Zion Canyon, by A.M.Woodbury, Vol.5, No.3 (July 1933), pp.2-5, illus., map.

Geological exhibits

The geological column of Zion and Bryce, by G.Y.Croft, Vol.4, No.5 (Aug.1932), pp.5-6.

Glaciation

Alluvial fans and talus cones, by G.Y.Croft, Vol.4, No.6 (Sept.1932), p.7; Southern limit of glaciation in Utah, Vol.8, No.3 (Sept.1936), pp. 24-25.

Jurassic period

Curious designs in Jurassic sandstone, Vol.4, No.3 (June 1932), p.3, illus.; The Jurassic period in

History

Zion, Vol.4, No.1 (Ap.1932), pp.1-2; What is the Jurassic period? Vol.4, No.1 (Ap.1932), p.2.

Limestone

Limestone lenses in Navajo sandstone, by G.Y.Croft, Vol.5, No.4 (Aug.1933), p.6.

Sandstone

Cross-bedding in Navajo sandstone, by G.Y.Croft, Vol.5, No.3 (July 1933), pp.6-7.

Shinarump conglomerate

Shinarump conglomerate as it occurs in Zion, by J.C.Anderson, Vol.7, No.2 (June 1935), pp.11-12, illus.

Timpanogos Cave National Monument

Geological factors of Timpanogos Cave, by T.A.Walker, Vol.6, No.4 (July-Aug.1934), pp.36-37.

Zion Canyon

The origin of the rocks of Zion Canyon, by J.Gray, Vol.4, No.6 (Sept.1932), pp.4-6.

(End of section, Geology)

Grantham, H.

Bird-banding experiences, Vol.7, No.1 (Mar.1935), pp.1-3; Bird-banding in 1935-36, Vol.8, No.2 (June 1936), pp.18-21.

Grantham, H. and others

Along Nature's highway, Vol.7, No.2 (June 1935), pp.16-17; Vol.7, No.3 (Sept.1935), pp.26-27.

Gray, J.

The origin of the rocks of Zion Canyon, Vol.4, No.6 (Sept.1932), pp.4-6.

Griegenow, A.B.

Poems on Zion, Vol.4, No.6 (Sept. 1932), pp.8-9.

History

The discovery of Zion Canyon, by H.L.Reid, Vol.7, No.2 (June 1935), pp.14-15; Zion honored by a visit from its oldest living settlers [Mr. and Mrs. Elijah C. Behunin], by J.W.Thornton, Vol.2, No.4 (Sept. 1930), p.4.

Indians--Artifacts

INDIANS

Artifacts

A brief description of an Indian ruin near Shonesburg, Utah, by E.R. Smith, Vol.6, No.1 (Jan.-Feb.1934), pp.13-18, illus., bibliog.

"Indian Dick"

The legend of Bryce Canyon, as told to...C.C.Presnall, Vol.8, No.1 (Mar. 1936), pp.2-3, bibliog.

Paiute Indians

Further notes on Paiute names, from information by W.R.Palmer, Vol.8, No.3 (Sept.1936), pp.18-20, illus.; A Paiute joke, by T.Tillohash, Vol.8, No.1 (Mar.1936), p.3; Tony Tillohash, by C.C.Presnall, Vol.8, No.1 (Mar.1936), p.1, bibliog.

Paiute language

Paiute names, by C.C.Presnall, Vol.8, No.1 (Mar.1936), pp.9-12; Paiute names for mammals, reptiles, birds and plants, as told by T.Tillohash by C.C.Presnall, Vol.8, No.1 (Mar. 1936), pp.7-8; Paiute names for the canyon, by C.C.Presnall, Vol.8, No.1 (Mar.1936), pp.4-5, illus.

Paiute myths and legends

Kinasava and Wynopits, as told by T.Tillohash, Vol.8, No.1 (Mar.1936), p.6; The legend of Bryce Canyon, as told...by "Indian Dick," by C.C. Presnall, Vol.8, No.1 (Mar.1936), pp.2-3, bibliog.; Legend of Sinawava, based on customs of the Paiute Indians, by H.L.Reid, Vol.4, No.4 (July 1932), pp.1-4, illus.

Pictographs

Indian pictographs near Zion, Vol.4, No.4 (July 1932), p.5, illus.

Tillohash, Tony

Tony Tillohash, by C.C.Presnall, Vol.8, No.1 (Mar.1936), p.1, bibliog.

Zuni Indians

The datura, by C.C.Presnall, Vol.7, No.3 (Sept.1935), pp.18-19, illus.; Ethnobotanical notes, by K.E.Meight,

Insects--Wasps

Vol.7, No.3 (Sept.1935), pp.20-21; The sacred datura among the Zuni, by H.L.Reid, Vol.7, No.3 (Sept. 1935), pp.22-25.

(End of section, Indians)

INSECTS

Miscellaneous references

Forest insects in Zion, Bryce, and Cedar Breaks, by W.D.Chick, jr., Vol.8, No.2 (June 1936), pp.13-17; The irony of Nature's laws, by S.D. Durrant, Vol.3, No.3 (Aug.1931), p.22.

Caterpillars

Ash tree caterpillars again, by D. J.Jolley, Vol.3, No.1 (June 1931), p.4; Defoliation in ash trees again, by D.J.Jolley, Vol.2, No.1 (June 1930), p.3; Insects defoliate ash trees, by A.M.Woodbury, Vol.1, No.1 (Aug.1929), p.5.

Crickets

Sand cricket cannibal, by A.M.Woodbury, Vol.2, No.1 (June 1930), p.4.

Fleas

The snow flea, by M.Cope, Vol.4, No.1 (Ap.1932), p.9.

Flies, Robber

Along Nature's highway, by B.E. Rees, Vol.8, No.3 (Sept.1936), pp.26-27.

Mosquitoes

Mosquitoes of Zion Canyon, by B.E. Rees, Vol.8, No.3 (Sept.1936), pp. 21-23, illus.

Spiders, Black widow

Along Nature's highway, by B.E. Rees, Vol.8, No.3 (Sept.1936), pp.26-27.

Wasps, Long-sting

Along Nature's highway, by B.E. Rees, Vol.8, No.3 (Sept.1936), pp.26-27.

Wasps, SpheX

Social relations of the spheX wasps, by A.M.Woodbury, Vol.2, No.2 (July 1930), p.1, illus.; SpheX wasp makes a nest, by A.M.Woodbury, Vol.2, No. 2 (July 1930), p.4, illus.

(End of section, Insects)

Johnson

Johnson, N.

The discovery of Zion Canyon, by H.L.Reid, Vol.7, No.2 (June 1935), pp. 14-15.

Jolley, D.J.

Ash tree caterpillars again, Vol.3, No.1 (June 1931), p.4; Auto death on snakes, Vol.2, No.1 (June 1930), p.4; Cougar kittens in captivity, Vol.3, No.1 (June 1931), p.2; Defoliation in ash trees again, Vol.2, No.1 (June 1930), p.3; Face to face with cougars, Vol.1, No.3 (Oct. 1929), pp.5-6; Revegetation of the rims of Zion, Vol.4, No.2 (May 1932), pp.8-9, illus.; Rocks of ages, Vol.4, No.2 (May 1932), p.3, illus.; Rocky Mountain sheep in captivity, Vol.5, No.1 (May 1933), p.5, illus.

Laboratory

Camp laboratory, by G.G.Cannon, Vol.6, No.1 (Jan.-Feb.1934), pp. 10-12, illus.

Lehman Caves National Monument

Lehman Caves, by O.T.W.Nielson, Vol.6, No.4 (July-Aug.1934), pp. 41-43, illus.; Newly acquired areas--how administered, by C.C.Presnall, Vol.6, No.4 (July-Aug.1934), p.40.

Life zones

Environmental factors in Bryce Canyon forests, by K.E.Weight, Vol.6, No.3 (May-June 1934), pp.28-30, illus.

Long, W.S.

Rattlesnakes, Vol.7, No.4 (Dec. 1935), pp.32-34, illus., bibliog.

Meteors

Along Nature's highway, by C.C. Presnall and P.P.Patraw, Vol.5, No. 4 (Aug.1933), p.9, illus.

Mukuntuweap

The name Mukuntuweap, by A.M.Woodbury, Vol.5, No.4 (Aug.1933), pp.1-3.

Museum, Bryce Canyon

Bryce Canyon museum, by K.E.Weight, Vol.5, No.2 (June 1933), p.5, il-

Plair

lus.; Bryce museum; cover illustration, Vol.5, No.4 (Aug.1933), cover.

Museum exhibits

Recent additions to the museum, Vol.4, No.1 (Ap.1932), p.6; Vol.4, No.5 (Aug.1932), pp.1-3; Unusual bird records, by A.M.Woodbury, Vol.4, No.6 (Sept.1932), p.7.

Natural bridges

Tower Bridge, Bryce Canyon National Park, by K.E.Weight, Vol.4, No. 3 (June 1932), p.1, illus.

Natural history--Bibliography

Book notes, by C.C.Presnall, Vol.6, No.2 (Mar.-Ap.1934), p.27; New publications issued, Vol.5, No.3 (July 1933), p.7.

Nielson, O.T.W.

Lehman Caves, Vol.6, No.4 (July-Aug.1934), pp.41-43, illus.

Parker, T.C.

Anthony W. Ivens and the Indians of Zion, Vol.4, No.2 (May 1932), p. 9; The roads of Zion, Vol.4, No.1 (Ap.1932), pp.3-4, illus.

Parunuweap

Cliff dwellings on the Parunuweap, Vol.4, No.2, (May 1932), pp.1-2, illus.

Patraw, P.M.

The datura, Vol.4, No.6 (Sept.1932), pp.1-2; The role of the prickly pear in plant succession, Vol.5, No.5 (Sept.-Oct.1933), pp.3-4, illus.

Patraw, P.P.

Colored snow observed on East Rim Road, Vol.5, No.1 (Mar.1933), p.1, illus.

Personnel

Miscellaneous notes, Vol.4, No.1 (Ap.1932), p.9; A new park naturalist for Zion--Bryce, Vol.5, No. 2 (June 1933), p.6; Park Naturalist Woodbury leaves for school, by J.W. Thornton, Vol.2, No.3 (Aug.1930), p.6.

Plair, T.B.

Vegetative cover of the Utah parks, Vol.6, No.3 (May-June 1934), pp.33-35.

Poetry

Poetry

- Poems on Zion, by B.Griebenow, Vol. 4, No.6 (Sept.1932), pp.8-9; Rocks of ages, by D.J.Jolley, Vol.4, No. 2 (May 1932), p.3, illus.; Sunset at Bryce Canyon, by E.D.W.Spingarn, Vol.2, No.3 (Aug.1930), p.1; To Zion Canyon, by G.A.Woodbury, Vol. 4, No.4 (July 1932), p.7, illus.
- Presnall, C.C.  
 Along Nature's highway, Vol.5, No. 5 (Sept.-Oct.1933), p.7; Vol.5, No. 6 (Nov.-Dec.1933), p.7; Vol.7, No. 1 (Mar.1935), pp.8-10; Book notes, Vol.6, No.2 (Mar.-Apr.1934), p.27; Character of the forest cover in Zion Canyon, Vol.5, No.4 (Aug.1933), pp.6-7, illus.; The common hardwoods of Zion Canyon, Vol.5, No.6 (Nov.-Dec.1933), pp.1-5, illus.; Cottonwoods and willows in Zion Canyon, Vol.5, No.5 (Sept.-Oct. 1933), pp.5-6; The datura, Vol.7, No.3 (Sept.1935), pp.18-19, illus.; The gila monster and its venom, Vol.7, No.4 (Dec.1935), pp.35-36, bibliog.; The legend of Bryce Canyon, as told... by "Indian Dick," Vol.8, No.1 (Mar.1936), pp.2-3, bibliog.; Narrows of the Virgin River, Vol.8, No.4 (Dec.1936), pp.36-41, illus.; Newly acquired areas-- how administered, Vol.6, No.4 (July-Aug.1934), p.40; Paiute names for mammals, reptiles, birds, and plants, as told by Tony Tillohash, Vol.8, No.1 (Mar.1936), pp.7-8; Paiute names for the canyon, Vol.8, No.1 (Mar.1936), pp.4-5, illus.; Paiute place names, Vol.8, No.1 (Mar.1936), pp.9-12; The rarer trees of Zion Canyon, Vol.6, No.3 (May-June 1934), pp.31-32, illus.; The reptiles of Zion and Bryce Canyon National Parks, Vol.7, No.4 (Dec.1935), pp. 28-31, bibliog.; To greet you, Vol. 5, No.3 (July 1933), p.1; Tony Tillohash, Vol.8, No.1 (Mar.1936),

Rozelle

- p.1, bibliog.; Waterfalls, Vol.5, No.5 (Sept.-Oct.1933), pp.1-2.
- Presnall, C.C. and Chick, W.D., Jr.  
 Along Nature's highway, Vol.8, No. 2 (June 1936), p.22.
- Presnall, C.C. and Croft, G.Y.  
 Along Nature's highway, Vol.6, No. 2 (Mar.-Apr.1934), p.26, illus.; Mammals of Zion National Park: a preliminary check list, Vol.6, No. 2 (Mar.-Apr.1934), pp.19-25, illus.
- Presnall, C.C. and Grantham, H.  
 Flocking habits of wintering juncos, Vol.7, No.1 (Mar.1935), pp.4-7, map.
- Presnall, C.C. and Patraw, P.P.  
 Along Nature's highway, Vol.5, No. 4 (Aug.1933), p.9, illus.
- Presnall, C.C. and Tillohash, T.  
 Kinasava and Wynopits, as told by T.Tillohash, Vol.8, No.1 (Mar. 1936), p.6.
- Rees, B.E.  
 Along Nature's highway, Vol.8, No. 3 (Sept.1936), pp.26-27; Mosquitoes of Zion Canyon, Vol.8, No.3 (Sept. 1936), pp.21-23, illus.
- Reid, H.L.  
 Cotton growing in Utah's Dixie, Vol.4, No.6 (Sept.1932), pp.2-4; The discovery of Zion Canyon, Vol. 7, No.2 (June 1935), pp.14-15; The legend of Sinawava, based on the customs of the Paiute Indians, Vol. 4, No.4 (July 1932), pp.1-4, illus.; Man's part in erosion, Vol.3, No.4 (Sept.1931), p.32; Pioneer woman outwits Indian, Vol.3, No.3 (Aug. 1931), pp.18-19; The sacred datura among the Zuni, Vol.7, No.3 (Sept. 1935), pp.22-25.
- Roads  
 How to reach Zion National Park, Vol.1, No.1 (Aug.1929), p.2; The roads of Zion, by T.C.Parker, Vol. 4, No.1 (Apr.1932), pp.3-4, illus.
- Rozelle, B.W.  
 Cliff dwellings on the Parunuweap,

Ruesch

- Vol.4, No.2 (May 1932), pp.1-2, illus.  
 Ruesch, W.  
 A cougar cornered, Vol.1, No.3 (Oct. 1929), pp.3-4.  
 Russell, H.  
 Deer killed by ticks or mites, Vol. 1, No.1 (Aug.1929), p.5; Early settlers' plantings: the "tree of heaven" in Zion, Vol.4, No.2 (May 1932), pp.7-8, illus.; The gray rock squirrel, Vol.2, No.3 (Aug.1930), pp.3-4; King snake eats a rattlesnake, Vol.1, No.1 (Aug.1929), p.3; The raccoon..., Vol.5, No.1 (May 1933), p.3, illus.; The Sonoran toad..., Vol.4, No.5 (Aug.1932), p.3; Zion deer, Vol.2, No.4 (Sept.1930), pp.6-7.

Scoyen, E.T.

- Cowardice or intelligence? Vol.1, No.3 (Oct.1929), p.6; Introducing Zion and Bryce Canyon Nature Notes, Vol.1, No.1 (Aug.1929), pp.1-2.

Smith, E.R.

- A brief description of an Indian ruin near Shonesburg, Utah, Vol.6, No.1 (Jan.-Feb.1934), pp.13-18, illus., bibliog.

Snakes (General)

- Along Nature's highway, Vol.5, No. 2 (June 1933), p.7; Autos death on snakes, by D.J.Jolley, Vol.2, No.1 (June 1930), p.4.

Snakes, Garter

- Amphibians and reptiles of Bryce Canyon National Park, by K.E.Weight, Vol.4, No.4 (July 1932), p.6; Increases at the zoo, by A.M.Woodbury, Vol.1, No.2 (Sept.1929), pp. 4-5; Two garter snakes and a toad, by A.M.Woodbury, Vol.2, No.2 (July 1930), p.3.

Snakes, Gopher

- A study of gopher snake eggs, by A.M.Woodbury, Vol.5, No.6 (Nov.-Dec.1933), p.6.

Snakes, King

- The Boyle king snake takes a meal,

Thornton

- by J.W.Thornton, Vol.1, No.1 (Aug. 1929), p.3; King snake eats a rattlesnake, by H.Russell, Vol.1, No. 1 (Aug.1929), p.3.

Snakes--Rattlesnakes

- Amphibians and reptiles of Bryce Canyon National Park, by K.E.Weight, Vol.4, No.4 (July 1932), p.6; Increases at the zoo, by A.M.Woodbury, Vol.1, No.2 (Sept.1929), pp. 4-5; Rattlesnakes, by W.S.Long, Vol.7, No.4 (Dec.1935), pp.32-34, illus., bibliog.; Rattlesnakes eat birds, Vol.5, No.4 (Aug.1933), p.3, illus.; The reptiles of Zion and Bryce Canyon National Parks, by C. C.Presnall, Vol.7, No.4 (Dec.1935), pp.28-31, bibliog.

Snakes, Water

- The tragedy in Zion pool, Vol.4, No.2 (May 1932), p.6, illus.

Snow. See: Weather.

Spingarn, E.D.W.

- Sunset at Bryce Canyon, Vol.2, No. 3 (Aug.1930), p.1.

Swifts

- Along Nature's highway, Vol.5, No. 2 (June 1933), p.7; Amphibians and reptiles of Bryce Canyon National Park, by K.E.Weight, Vol.4, No.4 (July 1932), p.7.

Thompson, B.H.

- Water ouzel feeds self and young, Vol.3, No.1 (June 1931), p.2.

Thornton, J.W.

- Another peak climbed, Vol.3, No.3 (Aug.1931), p.17; Are fossils being formed? Vol.3, No.3 (Aug.1931), p. 20; A battle within the temple, Vol.2, No.3 (Aug.1930), pp.4-5; The Boyle king snake takes a meal, Vol.1, No.1 (Aug.1929), p.3; The camp robbers, Vol.2, No.3 (Aug. 1930), p.5; Do animals react to music? Vol.3, No.3 (Aug.1931), p. 19; The dog gets a cussing, Vol.2, No.4 (Sept.1930), pp.7-8; Greet-

Thornton (Continued)

Trees, Shrubs, & Plants--Fir

ings, Vol.2, No.1 (June 1930), p.1; The hanging gardens of Zion, Vol.2, No.1 (June 1930), p.5; I was gone too, Vol.1, No.3 (Oct.1929), pp.4-5; Imagery, Vol.2, No.2 (July 1930), pp.2-3; The killer, Vol.1, No.3 (Oct.1929), p.3; Our educational program, Vol.3, No.1 (June 1931), p.1; Park Naturalist Woodbury leaves for school, Vol.2, No.3 (Aug.1930), p.6; Plants and erosion, Vol.3, No.4 (Sept.1931), pp.28-29; Red Arch Mountain, Vol.2, No.4 (Sept.1930), pp.2-3; Robbing the world of beauty, Vol.1, No.2 (Sept.1929), p.3; Veteran of 91 years makes Narrows Trail, Vol.2, No.2 (July 1930), p.5; Zion--her moods, Vol.2, No.2 (July 1930), p.2; Zion honored by a visit from its oldest living settlers, Vol.2, No.4 (Sept.1930), p.4.

Tillohash, T.

A Paiute joke, Vol.3, No.1 (Mar. 1936), p.3.

Timpanogos Cave National Monument

Geological factors of Timpanogos Cave, by T.A.Walker, Vol.6, No.4 (July-Aug.1934), pp.36-37; Newly acquired areas--how administered, by C.C.Presnall, Vol.6, No.4 (July-Aug.1934), p.40.

Tourists

A great year, Vol.2, No.4 (Sept. 1930), p.1.

TREES, SHRUBS, AND PLANTS

Ferns

The hanging gardens of Zion, by J. W.Thornton, Vol.2, No.1 (June 1930), p.5.

Plant succession. See: Ecology.

Poison ivy

Poison ivy, by G.Y.Croft, Vol.5, No.1 (May 1933), p.4, illus.

Prickly pear

The role of the prickly pear in plant succession, by P.M.Patraw, Vol.5, No.5 (Sept.-Oct.1933), pp.

3-4, illus.

Squawbush

Squawbush and squawberries, by A.M. Woodbury, Vol.1, No.2 (Sept.1929), p.4.

Trees (General)

Vegetative cover of the Utah parks, by T.B.Plair, Vol.6, No.3 (May-June 1934), pp.33-35.

Trees--Kinds

Ash

Defoliation in ash trees again, by D.J.Jolley, Vol.2, No.1 (June 1930), p.3; Insects defoliate ash trees, by A.M.Woodbury, Vol.1, No.1 (Aug. 1929), p.5.

Ash, Desert

The common hardwoods of Zion Canyon, by C.C.Presnall, Vol.5, No.6 (Nov.-Dec.1933), pp.1-5, illus.

Birch

The common hardwoods of Zion Canyon, by C.C.Presnall, Vol.5, No.6 (Nov.-Dec.1933), pp.1-5, illus.

Cedar

Along Nature's highway, Vol.5, No.1 (May 1933), pp.6-7; The rarer trees of Zion Canyon, by C.C.Presnall, Vol.6, No.3 (May-June 1934), pp.31-32, illus.

Cottonwood

Cottonwoods and willows in Zion Canyon, by C.C.Presnall, Vol.5, No.5 (Sept.-Oct.1933), pp.5-6; Fremont cottonwood, by K.E.Weight, Vol.7, No.2 (June 1935), p.12; The willow family in Zion, Vol.4, No.1 (Ap. 1932), pp.7-8, illus.

Elder, Box

The common hardwoods of Zion Canyon, by C.C.Presnall, Vol.5, No.6 (Nov.-Dec.1933), pp.1-5, illus.

Fir

Douglas fir in Bryce Canyon, by K. E.Weight, Vol.5, No.4 (Aug.1933), pp.4-5, illus.; Fir tree in overhanging rock, by A.M.Woodbury, Vol.4, No.5 (Aug.1932), p.5; Friends until death, by M.Cope, Vol.11, No.



Trees, et cetera--Hackberry

3 (Aug.1930), p.6; The rarer trees of Zion Canyon, by C.C.Presnall, Vol.6, No.3 (May-June 1934), pp.31-32, illus.

Hackberry

The rarer trees of Zion Canyon, by C.C.Presnall, Vol.6, No.3 (May-June 1934), pp.31-32, illus.

Juniper

The rarer trees of Zion Canyon, by C.C.Presnall, Vol.6, No.3 (May-June 1934), pp.31-32, illus.

Maple

The common hardwoods of Zion Canyon, by C.C.Presnall, Vol.5, No.6 (Nov.-Dec.1933), pp.1-5, illus.

Mulberry

Early settlers' plantings: mulberry trees, by A.M.Woodbury, Vol.4, No.3 (June 1932), pp.1-2.

Oak

The common hardwoods of Zion Canyon, by C.C.Presnall, Vol.5, No.6 (Nov.-Dec.1933), pp.1-5, illus.; The rarer trees of Zion Canyon, by C.C.Presnall, Vol.6, No.3 (May-June 1934), pp.31-32, illus.

Pine

Along Nature's highway, by C.C.Presnall and W.D.Chick, Jr., Vol.8, No.2 (June 1936), p.22; The bristle-cone pine in Bryce Canyon National Park, by K.E.Weight, Vol.5, No.3 (July 1933), p.8, illus.; Friends until death, by M.Cope, Vol.2, No.3 (Aug.1930), p.6; The limber pine, by K.E.Weight, Vol.4, No.5 (Aug.1932), pp.4-5, illus.; The rarer trees of Zion Canyon, by C.C.Presnall, Vol.6, No.3 (May-June 1934), pp.31-32, illus.

"Tree of heaven"

Early settlers' plantings: the "tree of heaven" in Zion, by H.Russell, Vol.4, No.2 (May 1932), pp.7-8, illus.; Vol.4, No.2 (May 1932), pp.7-8, illus.

Willow

Cottonwoods and willows in Zion

Weight

Canyon, by C.C.Presnall, Vol.5, No.5 (Sept.-Oct.1933), pp.5-6; The willow family in Zion, Vol.4, No.1 (Ap.1932), pp.7-8, illus.

(End of section, Trees, et cetera)

Virgin River

Along Nature's highway, by H.Grant-ham and others, Vol.7, No.2 (June 1935), pp.16-17; Narrows of the Virgin River, by C.C.Presnall, Vol.8, No.4 (Dec.1936), pp.36-41, illus.

Walker, T.A.

Geological factors of Timpanogos Cave, Vol.6, No.4 (July-Aug.1934), pp.36-37.

Waterfalls

Waterfalls, by C.C.Presnall, Vol.5, No.5 (Sept.-Oct.1933), pp.1-2.

Weather

Along Nature's highway, Vol.8, No.4 (Dec.1936), pp.42-43; Bryce Canyon in a storm, by M.Cope, Vol.2, No.3 (Aug.1930), p.2; Colored snow observed on East Rim Road, by P.P.Patraw, Vol.5, No.1 (May 1933), p.1, illus.

Weight, K.E.

The amphibians and reptiles of Bryce Canyon National Park, Vol.4, No.4 (July 1932), p.6; The bristle-cone pine in Bryce Canyon National Park, Vol.5, No.3 (July 1933), p.8, illus.; Bryce Canyon museum, Vol.5, No.2 (June 1933), p.5, illus.; Douglas fir in Bryce Canyon, Vol.5, No.4 (Aug.1933), pp.4-5, illus.; Environmental factors in Bryce Canyon forest, Vol.6, No.3 (May-June 1934), pp.28-30, illus.; Erosion agents of Bryce Canyon, Vol.3, No.4 (Sept.1931), pp.27-28; Erosion of Bryce Canyon, Vol.3, No.1 (June 1931), p.3; Ethnobotanical notes, Vol.7, No.3 (Sept.1935), pp.20-21; Fremont cottonwood, Vol.7, No.2 (June 1935), p.12; The limber pine,

ZION--BRYCE NATURE NOTES

Weight (Continued)

Vol.4, No.5 (Aug.1932), pp.4-5, illus.; Tower bridge, Bryce Canyon National Park, Vol.4, No.3 (June 1932), p.1, illus.; Western yellow pines injured by porcupines, Vol.4, No.5 (Aug.1932), pp.6-7, illus.

Wetherill, B.W.

Summary of investigations by Zion National Park archaeological party, Vol.6, No.1 (Jan.-Feb.1934), pp.1-9, illus., bibliog.

Wilson, L.E.

Note on fossils from Bryce Canyon, Vol.7, No.2 (June 1935), p.13.

Woodbury, A.M.

Aerial antics of hummingbirds, Vol.2, No.2 (July 1930), p.3; Along Nature's highway, Vol.5, No.3 (July 1933), p.9; Auto death toll, Vol.2, No.1 (June 1930), pp.3-4; The canyon wren hunting, Vol.3, No.3 (Aug. 1931), pp.21-22; The carving of Zion Canyon, Vol.3, No.4 (Sept. 1931), p.26 (Erosion No.); A deer slide, Vol.1, No.1 (Aug.1929), p.4; Early settlers' plantings: mulberry trees, Vol.4, No.3 (June 1932), pp.1-2; Erosion--then and now, Vol.1, No.2 (Sept.1929), pp.2-3; Erosion uncovers tracks of the past, Vol.3, No.4 (Sept.1931), p.33; Fir tree in overhanging rock, Vol.4, No.5 (Aug.1932), p.5; Fire caused by rock slide, Vol.1, No.1 (Aug.1929), p.5; The golden eagle, Vol.4, No.5 (Aug.1932), p.1; The gray rock squirrel hunting, Vol.5, No.2 (June 1933), pp.3-4, illus.; Increases at the zoo, Vol.1, No.2 (Sept.1929), pp.4-5; Insects defoliate ash trees, Vol.1, No.1 (Aug.1929), p.5; Language among birds, Vol.2, No.1 (June 1930), p.2; The name Mukuntuweap, Vol.5, No.4 (Aug.1933), pp.1-3; Nest of the gray rock squirrel, Vol.2, No.3 (Aug.1930), p.3, illus.; A racerunner lizard "throws"

Zion--Bryce Nature Notes (Magazine)

its tail, Vol.1, No.1 (Aug.1929), p.4; Rattlesnakes eat birds, Vol.5, No.4 (Aug.1933), p.8, illus.; Sand cricket cannibal, Vol.2, No.1 (June 1930), p.4; Slab erosion in widening Zion Canyon, Vol.5, No.3 (July 1933), pp.2-5, illus., map; Social relations of the sphex wasps, Vol.2, No.2 (July 1930), p.1, illus.; Sphex wasp makes a nest, Vol.2, No.2 (July 1930), p.4, illus.; Squawbush and squawberries, Vol.1, No.2 (Sept.1929), p.4; The stadium pool, Vol.4, No.6 (Sept.1932), p.8; A study of gopher snake eggs, Vol.5, No.6 (Nov.-Dec.1933), p.6; Successions in Zion, Vol.2, No.4 (Sept. 1930), p.3; Two garter snakes and a toad, Vol.2, No.2 (July 1930), p.3; Uncle Jim Owen on cougar, Vol.1, No.3 (Oct.1929), pp.2-3; Unusual bird records, Vol.4, No.6 (Sept. 1932), p.7; The Zion snail..., Vol.2, No.4 (Sept.1930), p.6.

Woodbury, G.A.

To Zion Canyon, Vol.4, No.4 (July 1932), p.7, illus.

Zion National Park--Description

From one of our friends, by S.Balkin, Vol.2, No.4 (Sept.1930), p.2; Imagery, by J.W.Thornton, Vol.2, No.2 (July 1932), pp.2-3; Narrows of the Virgin River, by C.C.Presnall, Vol.8, No.4 (Dec.1936), pp.36-41, illus.; West Temple, Vol.4, No.1 (Ap.1932), p.1, illus.; Zion--her moods, by J.W.Thornton, Vol.2, No.2 (July 1930), p.2.

Zion--Bryce Nature Notes (Magazine)

Greetings, by J.W.Thornton, Vol.2, No.1 (June 1930), p.1; Index, Vol.7, No.4 (Dec.1935), pp.37-38; Index, Zion--Bryce Nature Notes, Vol.8, No.4 (Dec.1936), pp.44-45; Introducing Zion and Bryce Canyon Nature Notes, by E.T.Scoyen, Vol.1, No.1 (Aug.1929), pp.1-2.