

THE GRAND CANON  
SPECIALIZED BIBLIOGRAPHY SERIES

# TERRESTRIAL VERTEBRATES

*of the*

## GRAND CANYON REGION

(INCLUDES BATS, EXCLUDES BIRDS)

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THIRD EDITION

EARLE E. SPAMER

BIBLIOGRAPHY OF TERRESTRIAL VERTEBRATES OF THE GRAND CANYON REGION  
(INCLUDES BATS, EXCLUDES BIRDS)

*Citations are extracted from*

THE GRAND CANON

A WORLDWIDE BIBLIOGRAPHY OF THE  
GRAND CANYON AND LOWER COLORADO RIVER REGIONS  
IN THE UNITED STATES AND MEXICO  
VOLUME I, PART B : BIBLIOGRAPHY

CATALOGERS NOTE  
**canon** : *a standard or  
essential list of works*  
**The Grand Canon**  
*not* The Grand Canyon



RAVEN'S PERCH MEDIA

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**These listed publications are specifically about non-avian terrestrial taxa—and bats—or topics that address them. Items that are not organismally focused studies, or that do not specially mention non-avian terrestrial topics—for example, more broadly focused ecological investigations or studies of environmental concerns—do not appear in this special bibliography.** For citations that relate to broader ecological and environmental matters, which otherwise are about the environments of this region, consult the much more comprehensive listings in Part 19 of *THE GRAND CANON*, Volume 1/Part B).

For **avian vertebrates**, see the *Bibliography of Ornithology of the Grand Canyon Region*.

For **fish**, see the *Bibliography of Ichthyology of the Lower Colorado River*, which uniquely distinguishes between publications about the Grand Canyon and about the lower Colorado River below Grand Canyon (and including the lower Virgin and Muddy Rivers).

Each citation here includes an Item number (for example, 19.4217; the prefix “19.” indicates that it is from Part 19 of the much larger bibliography, *THE GRAND CANON*, Volume 1/Part B (Bibliography)); other prefixes indicate that they are sourced from other enumerated parts of the main bibliography. These Item numbers serve as serial numbers only, which uniquely identify citations throughout *THE GRAND CANON*. Numbers are assigned as citations are acquired for the bibliography, thus they do not follow in order.

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BIBLIOGRAPHY OF  
TERRESTRIAL VERTEBRATES  
OF THE GRAND CANYON REGION  
(INCLUDES BATS, EXCLUDES BIRDS)

ANONYMOUS

**PUBLICATION NOT DATED:  
DATE NOT DETERMINED NOR ESTIMATED**

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|---------|---------|--|
| NO DATE | 19.1    | <i>Life zones and ecosystems.</i> Grand Canyon Natural History Association, pamphlet.  |
| NO DATE | 19.2    | <i>Arizona wildlife : mammals.</i> Arizona Game and Fish Department, Form 4012, [32] pp.   |
| NO DATE | 19.3487 | Special deer conference. <i>In:</i> The Pennsylvania Deer Problem. <i>Pennsylvania Board of Game Commissioners, Bulletin 12</i> [re-release], [Part 2], pp. 48-50. [Re-release of <i>Bulletin 12</i> with pagination continued in added Part 2.] [See p. 49, notes on Kaibab Plateau.] |
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**PUBLICATION NOT DATED:  
DATE ESTIMATED, ATTRIBUTED, OR KNOWN FROM ORIGINAL RECEIPT**

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|---------|---------|--|
| NO DATE | 19.4566 | <i>History of wildlife management in the Intermountain Region.</i> Ogden, Utah: U.S. Forest Service, Intermountain Region, 44 pp. [1990.] [Kaibab Plateau, see pp. 13-18, which principally is an excerpt from John P. Russo's "The Kaibab North Deer Herd" (Russo, 1964, <a href="#">ITEM NO. 19.1418</a> ).] |
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**DATED PUBLICATIONS, GROUPED BY YEAR**

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|------|---------|--|
| 1893 | 19.4    | Arizona game preserves. <i>Arizona's Resources</i> , 1 (February): 18.   |
| 1901 | 19.3529 | Kanab [NEWS]. Mustang hunting. Ranchmen engaged in rounding-up the wild horses of the plains. <i>Deseret News</i> , (October 16): 7 [issue pagination]. (From New York |

BIBLIOGRAPHY OF TERRESTRIAL VERTEBRATES OF THE GRAND CANYON REGION  
[INCLUDES BATS, EXCLUDES BIRDS]

**Anonymous** (*continued*)

*Evening Sun.*) [Brief item of ranchmen of northwestern Arizona, southwestern Utah, and Nevada gathering at Pipe Spring for a wild-mustang hunt in the region.]

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1902	19.3197	The horned toads. <i>Birds and Nature</i> , 12(4) (November): 178-180. [See p. 179.] [Written in the first-person but without by-line.]
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1905	19.4093	[Game preserve.] <i>Shooting and Fishing</i> , 38(23) (September 14): 445. ["It is understood that the Utah and Arizona representatives in Congress have agreed to join in placing before the next session a bill making a game preserve on the region lying between the southern Utah line and the Grand Canon of Arizona, an area of about 2000 square miles. It is intended that the Government shall stock the ground with buffalo and rare animals and shall fence it in. Only a few years ago the district proposed to be stocked was full of deer and antelope, which have been almost entirely destroyed by Ute Indians from Colorado, who slaughtered the game wontonly and unnecessarily." (ENTIRE ITEM)]
1905	19.3530	Kanab [NEWS]. To perpetuate the buffalo. Buffalo Jones on way to Grand Canyon with herd. <i>Deseret News</i> , (October 26): 9 [issue pagination].

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1906	19.3531	Fredonia, Arizona [NEWS]. <i>Deseret News</i> , (January 19): 9 [issue pagination]. ["Col. Jones has his buffalo and cattalo 40 miles southeast from here. The country is turning into a primitive west. While the last drove of animals were being driven from Lund, one large buffalo bull was lost on the prairie near Rockville. No particular danger from stampede is anticipated, but it make take a Buffalo Bill to 'round' him in. Tourists will soon be able to find a veritable 'Wild West Show' in the Buckskin mountains [Kaibab Plateau]." (ENTIRE NOTE) (Buffalo Jones.) (See also Anonymous, 1906, <a href="#">ITEM NO. 19.3532.</a> )]
1906	19.3532	Fredonia, Arizona [NEWS]. Only 20,000 sheep will enter reserve—Buffalo bull again at large [and other news]. <i>Deseret News</i> , (February 28): 11 [issue pagination]. ["Supervisor Pratt of the Northern Division of the Grand canyon reserve is in possession of information that corrects a statement made in the 'News' some time ago to the effect that 30,000 sheep would be allowed to graze on the reserve. Twenty thousand is the maximum that will be allowed and these are limited to what is designated as district No. 3, a portion of the country that is suitable principally for winter range. [¶] The buffalo bull lost on the desert near hear has been found and coaxed into a corral. But the animal seems to ignore such contrivances, so he simply smashed the posts and gained his freedom. He may get tender hearted when spring opens and let the boys round him in again." (ENTIRE NOTES)]
1906	19.3533	Fredonia, Arizona [NEWS]. <i>Deseret News</i> , (July 10): 9 [issue pagination]. ["The Buffalo and Catalo and Persian sheep are located on Bright Angel point where they are within reach of the telescopes of tourists sitting at the big hotel on the side where the railroad comes to the brink." (ENTIRE NOTE)]
1906	19.3534	Toquerville [NEWS]. <i>Deseret News</i> , (September 4): 3 [issue pagination]. ["A herd of buffalo and cattalo (the latter is a hybrid of the buffalo and the galloway cow), has been brought to Camp Woolley. The company owning them is capitalized at \$100,000. Buffalo Jones, former game warden at the Yellowstone National park, is an active member. Beside the buffalo, Persion sheep have been secured by the company. Deer in herds are to be seen in the pines and quaking asp. A movement is on foot to make the Buckskin mountains [Kaibab Plateau] of this section a national game preserve." (ENTIRE NOTE)]

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BIBLIOGRAPHY OF TERRESTRIAL VERTEBRATES OF THE GRAND CANYON REGION  
[INCLUDES BATS, EXCLUDES BIRDS]

**Anonymous** (*continued*)

- 1907 19.3535 Mountain lion captured. *Deseret News*, (July 19): 2 [issue pagination]. ["Buffalo Jones passed through Provo today with a mountain lion captured at Angel Creek in southern Utah [*sic*], about 15 miles from the point where the cable is being stretched across the Colorado. Two lions and cub were lassoed by the party, but the one Mr. Jones has and the cub are all that were finally secured. The other lion came so near getting away, while the capturing party were trying to secure him with chains, that it was found necessary to kill him or lose him, and he was killed. Mr. Jones will take the lions with him to use in the east as illustrations in a lecture on the Wild West." (ENTIRE ITEM)] [See also note in July 26 issue (Anonymous, 1907, ITEM NO. 19.3536).]
- 1907 19.3536 "Buffalo" Jones here. Man who knows all about animals comes to town on visit. *Deseret News*, (July 26): 10 [issue pagination]. [Buffalo Jones brings with him two mountain lions caught (refer to Anonymous, 1907, ITEM NO. 19.3535).]
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- 1908 19.3537 Kanab [NEWS]. *Deseret News*, (March 3): 3 [issue pagination]. ["A great many of the cattlemen of Kane county are contemplating going on to the forest reserve on the Buckskin mountain [Kaibab Plateau], and some of them have already put in their applications on the strength of the prospects of the government's building a fence across the north end of the reserve, so that the cattle can be kept on the mountains." (ENTIRE NOTE)]
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- 1909 19.3477 A great year for game preserves. *Zoological Society Bulletin* (New York Zoological Society), (34) (June): 497-503. [See "The Grand Canon National Game Preserve", pp. 502-503.]
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- 1914 19.3762 Deer in Grand Canyon game refuge. *The Hawaiian Forester and Agriculturist*, 12(2) (February): 54. ["It is estimated that the government's Grand Canyon game refuge, in Arizona, now contains about ten thousand deer." (ENTIRE ITEM) Filler, without separate title, although the volume index, p. vii, gives the item title as cited here.]
- 1914 19.4628 Inter-mountain sheep notes. *The American Sheep-Breeder and Wool-Grower* (Chicago), 34(3) (March): 182, 184. [See "Utah", p. 184, which includes a paragraph regarding Kaibab Plateau deer and sheep.]
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- 1915 19.3194 [Brief notice of killed mountain lion from Grand Canyon Game Preserve that "measured ten feet from nose to tail." *In*: Forest Notes [SECTION]. *American Forestry*, 21(1) (January): 75.
- 1915 19.3483 [Huge mountain lion.] *In*: The Tree Top [SECTION]. *Recreation*, New Series, 52(3) (March): 168. ["Speaking of beasts of prey—an outdoor magazine, in the first paragraph of the leading article of a recent number, tells about a mountain lion which 'measured ten feet from nose to tail.' Think of it! An ordinary whopping big cougar might measure that much tail and all, and they have long tails. That old Grand Cañon tomcougar must have stood six feet high and had a yowl like a foghorn." (ENTIRE ITEM)]
- 1915 19.4121 [Huge mountain lion.] *The American Thresherman and Farm Power* (Madison, Wisconsin), 17(12) (April): 24. ["A mountain lion recently killed in the Grand Canyon game preserve, which adjoins the Tusayan national forest, measured ten feet from nose to tail. Mountain lions and other beasts of prey, such as wolves, coyotes, and wild cats, are killed by forest officers and game wardens because they are a menace to stock and to game animals." (ENTIRE ITEM)]

BIBLIOGRAPHY OF TERRESTRIAL VERTEBRATES OF THE GRAND CANYON REGION  
[INCLUDES BATS, EXCLUDES BIRDS]

**Anonymous** (*continued*)

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|------|---------|---|
| 1915 | 19.6452 | [Filler.] <i>The Christian Register</i> (Boston), 94(21) (May 27): 503. ["It is estimated that the government's Grand Canyon game refuge in Arizona now contains about ten thousand deer." (ENTIRE ITEM)]   |
| 1915 | 19.4090 | [Sheep in Grand Canyon Game Preserve.] <i>American Sheep-Breeder and Wool-Grower</i> (Chicago), 35(11) (November): 512. ["Dr. Hornaday, the big New York Zoo man, will present on behalf of his institution a flock of Himalayan Mountain sheep to the State of Arizona, the sheep to be confined in a preserve in the Grand Canyon."] [William Temple Hornaday.] |
| 1915 | 19.5869 | A senseless dipping order. <i>National Wool Grower</i> (Salt Lake City), 5(12) (December): 48-49. [Arizona State Board of Sheep Commissioners requirement to dip sheep with specific dips; should not apply to isolated Arizona Strip since Utah State Board of Sheep Commissioners require dipping in any dip that kills ticks.]                                 |
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|------|---------|--|
| 1916 | 19.6127 | [Feral burros in Grand Canyon.] <i>In: Forest Notes</i> [SECTION]. <i>Building and Engineering News</i> (San Francisco), 16(19) (May 10): 13.  |
| 1916 | 19.6594 | [Feral burros in Grand Canyon.] <i>In: Forest Notes</i> [SECTION]. <i>Hardwood Record</i> (The Hardwood Company, Chicago), 41(3) (May 25): 21.   |
| 1916 | 19.4674 | [Feral burros in Grand Canyon.] <i>The American Thresherman and Farm Power</i> (Madison, Wisconsin), 19(3) (July): 70. [Filler. "That wild burros in the Grand Canyon of the Colorado are increasing rapidly is the report from a ranger on the Tusayan National Forest, who says the little animals in their search for forage are finding their way to the top in such numbers as to constitute a nuisance. Already there are thousands of the animals in the Grand Canyon from Supai to the mouth of the Little Colorado, according to the forest ranger." (ENTIRE ITEM)] |
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|------|---------|---|
| 1917 | 19.3802 | Crossing the buffalo with beef cattle. <i>Popular Mechanics Magazine</i> , 28(6) (December): 884. [Notes the largest herd of catalo "is located on the isolated, uninhabited 'Arizona strip,' north of the Grand Cañon." [House Rock Valley.] |
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| 1918 | 19.3697 | [Note on a legal case pertaining to wild horses in New Mexico and southern Colorado.] <i>In: Along the Trail</i> [SECTION]. <i>Santa Fe Magazine</i> , 12(9) (August): 70. [Includes note, "A tale, vouched for at El Tovar Hotel, is that there are 1,000 burros more or less running wild in the Grand Cañon of Arizona—descendants of their kind left there by Coronado's band in 1542." (ENTIRE NOTE)] |
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| 1921 | 19.3228 | Deer in Grand Cañon saved from extinction. <i>Popular Mechanics Magazine</i> , 35(1) (January): 83.  |
| 1921 | 19.3489 | [Brief notice by Jesse Nusbaum of deer and geese on Kaibab Plateau.] <i>In: Along the Trail</i> [SECTION]. <i>Santa Fe Magazine</i> , 15(4) (March): 66. |
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|------|---------|---|
| 1922 | 19.4817 | Side lights of the California meeting of the National Dental Association. <i>In: Orthodontic News and Notes</i> [SECTION]. <i>International Journal of Orthodontia, Oral Surgery and Radiography</i> , 8(8) (August): 534-. [See p. 535: "To the tired orthodontist who has made the long jaunt to California in search of both youth and knowledge there are only two things which remain a mystery in his mind. First those little animals, which they tell you about which make their residence in the bottom of the Grand Canyon and when you are bitten by them will not release their hold until it |
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BIBLIOGRAPHY OF TERRESTRIAL VERTEBRATES OF THE GRAND CANYON REGION  
 [INCLUDES BATS, EXCLUDES BIRDS]

**Anonymous** (continued)

thunders . . . ." (ENTIRE NOTE)] [NOTE: Traditional folklore from numerous places suggest that certain animals will not release a bite-hold until it thunders (and/or other external influences); included among them are various lizards including the Gila monster.]

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1924	19.3494	Estimate made of big game animals on national forests. <i>California Fish and Game</i> , 10(1) (January): 36-38. [Kaibab Plateau game conditions noted, pp. 37, 37-38.]
1924	19.3488	[Kaibab Plateau mule deer give-away by U.S. Department of Agriculture.] <i>Wholesale Grocery Review</i> , 25(10) (October): 17.
1924	19.3495	Committee to help solve Kaibab deer herd problem. <i>California Fish and Game</i> , 10(4) (October): 196.
1924	19.6626	Deer given away. <i>In</i> : News Notes [SECTION]. <i>The Pathfinder</i> (Washington, D.C.), 31(1606) (October 11): 7. ["Uncle Sam has thousands of deer to give away. They are in the Kaibab national forest in northern Arizona where their number—30,000—has become so large the vegetation is not sufficient. The receiver has to pay crating charges and transportation—about \$35 a deer." (ENTIRE ITEM)]
1924	19.6625	New kind of squirrel. <i>In</i> : Things Scientific [SECTION]. <i>The Pathfinder</i> (Washington, D.C.), 31(1610) (November 11): 11. [Kaibab squirrel.]
1924	19.7	A great forest threatened. <i>American Forests and Forest Life</i> , 30: 359.
1924	19.8	Starvation threatens Kaibab deer. <i>American Forests and Forest Life</i> , 30: 663, 692-693.

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1925	19.9	The Kaibab deer drive. "An interesting failure". <i>American Forests and Forest Life</i> , 31: 80.
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1926	19.10	Problem of over-conservation in the Grand Canyon National Game Preserve. <i>Bird-Lore</i> , 28 (January): 88-90.
1926	19.13	Button, button, who has the button? <i>Grand Canyon Nature Notes</i> , 1(6) (September 22): 2. [Packrat activity, as reported by Assistant Chief Ranger Frank Winess from the Bright Angel Ranger Station at Wylie Way camp, North Rim.]

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1927	19.5371	Ranger Smith entertains. <i>Grand Canyon Nature Notes</i> , 1(11) (March 1) [April 16]: 4. [Lee Smith visited by porcupine at home.]
1927	19.3453	The Grand Canyon buffalo herd. <i>American Bison Society, Report, 1924-1926</i> , pp. 41-43. [House Rock Valley bison.]
1927	19.29	Prong-horn antelope colony in the Grand Canyon. <i>Science</i> , New Series (Supplement), (August 26): xiv.
1927	19.15	Arizona deer herd hit by starvation. <i>American Forests and Forest Life</i> , 33: 374.

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1928	19.46	Two trail parties in one picture. <i>Grand Canyon Nature Notes</i> , 3(5) (October 31): 2. [Deer appear in photograph of mounted trail party taken by Kolb Studio.]
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BIBLIOGRAPHY OF TERRESTRIAL VERTEBRATES OF THE GRAND CANYON REGION  
[INCLUDES BATS, EXCLUDES BIRDS]

**Anonymous** (continued)

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|------|---------|--|
| 1928 | 19.43   | Antlers as an age indicator of deer. <i>Grand Canyon Nature Notes</i> , 3(5) (October 31): 3.  |
| 1928 | 19.3485 | [Note.] <i>In</i> : Division Notes [SECTION]. <i>The Ark</i> (Museum of Zoology, University of Michigan, Ann Arbor), 7(4) (December): 3. [“ <i>The Division of Mammals</i> has received from Dr. H. H. Hammel the skulls and skins of three Kaibab deer, collected by him in the Kaibab Forest of Arizona.” (ENTIRE NOTE)] |
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|------|---------|---|
| 1929 | 19.3108 | Lizard hypnotized! <i>Popular Science Monthly</i> , 114(2) (February): 75. [Report from Edwin D. McKee that blue-bellied lizard caught more easily by focusing eyes on those of the lizard.]  |
| 1929 | 19.51   | Along the trails. <i>Grand Canyon Nature Notes</i> , 4(1) (September 30): 6-7. [Brief notes on mountain sheep on North Rim along McKinnon Point Trail and near Cliff Springs, porcupines on South Rim, western crows at Yavapai Point, belted kingfisher at Bright Angel Point, “A Big Scaley Lizard ( <i>Sceloporus magister</i> )” at Cedar Ridge on South Kaibab Trail, mule deer losing coats, hummingbirds at Hull Tank, and migrating birds on the Kaibab.] |
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| 1930 | 19.3216 | Deer fawns travel by plane to restock herd. <i>Popular Mechanics Magazine</i> , 53(1) (January): 81. [Deer flown from Fredonia to Red Butte.]  |
| 1930 | 19.5382 | Left-overs. <i>Grand Canyon Nature Notes</i> , 4(7) (May 31): 47. [Includes brief notes of porcupine on Bright Angel Trail near top, and inky-cap mushrooms “on the South Rim within a foot of a snowbank, March 14th”.]   |
| 1930 | 19.52   | Odds and ends. <i>Grand Canyon Nature Notes</i> , 4(8) (June 30): 56. [Birds; beaver in Bright Angel Creek; coyotes in Nankoweap Canyon, first record of coyotes in canyon bottom.]  |
| 1930 | 19.53   | Odds and ends. <i>Grand Canyon Nature Notes</i> , 4(10) (August 30): 69-71. [Lizards, birds, chipmunks, falcons, trout eggs planted in Shinumo Creek, deer range on North Rim, live specimen of “probably Grand Canyon Rattler” collected at Desert View Point.] |
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|------|---------|--|
| 1931 | 19.5383 | [Gila chipmunks hide pinyon nuts in women’s dormitory at South Rim.] <i>Grand Canyon Nature Notes</i> , 5(3) (January): 33.  |
| 1931 | 19.59   | [Young lizards coming out in the cold.] <i>Grand Canyon Nature Notes</i> , 5(5) (March): 46.   |
| 1931 | 19.5393 | [First antelope kid of the year found, dead, “above Indian Gardens”.] <i>In</i> : Field Observations [SECTION]. <i>Grand Canyon Nature Notes</i> , 5(7) (May): 70. |
| 1931 | 19.60   | [Desert pallid bat.] <i>Grand Canyon Nature Notes</i> , 5(8) (June): 74. [See also in 5(9) (July) (Tyler, 1931, <a href="#">ITEM NO. 19.1705</a> ).]               |
| 1931 | 19.5395 | [Skunk vs. squirrels at Indian Garden.] <i>In</i> : Field Observations [SECTION]. <i>Grand Canyon Nature Notes</i> , 5(8) (June): 82.                              |
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|------|---------|--|
| 1932 | 19.3707 | Deer given with auto boomed business. <i>Popular Mechanics Magazine</i> , 58(1) (July): 63. [James Cashman, Las Vegas, Nevada, auto dealer, gives away free deer with the purchase of each automobile \$500 or more. His original stock comprised “seventeen |
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BIBLIOGRAPHY OF TERRESTRIAL VERTEBRATES OF THE GRAND CANYON REGION  
[INCLUDES BATS, EXCLUDES BIRDS]

**Anonymous** (*continued*)

- deer raised on the outskirts of the famous Kaibab national forest that overhangs the northern rim of the Grand canyon" [*sic*].]
- 1932      19.5056      Field observations. *Grand Canyon Nature Notes*, 7(4) (July):. ("By Naturalist Staff.") [Squirrels, deer, antelope.]
- 1932      19.63            Occurrence of the spadefoot toad in Grand Canyon National Park. *Grand Canyon Nature Notes*, 7(7) (October): 70. [Greenland Lake; first record in the national park.]
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- 1933      19.5064      [Mule deer at Nankoweap Creek.] *In*: Miscellany [SECTION]. *Grand Canyon Nature Notes*, 8(7) (October): 205. ["According to Mr. Georges Vorge, geologist from the Univ. of Calif., several mule deer have apparently become permanent residents in the remote and isolated valley of Nankoweap creek. They were seen at various times during his stay (June and July) in that hot locality." (ENTIRE ITEM)]
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- 1934      19.5072      Report on rattlesnake specimens. *Grand Canyon Nature Notes*, 8(11) (February):. [Follow-up to McHenry, 1933, ITEM NO. 19.998. Further identification of specimens from both sides of Grand Canyon, with "Sketch map showing locations in which rattlesnake records of the Grand Canyon region were made; after Klauber 1931 with additions".]
- 1934      19.5073      [Nursing female Abert squirrel.] *In*: Field Observations [SECTION]. *Grand Canyon Nature Notes*, 9(2) (May): 280. ["On April 16, Mrs[.] J. P. Brooks noted a female Abert Squirrel near her residence that apprently had just been nursing young." (ENTIRE NOTE)]
- 1934      19.5081      [South Rim coyote identified as *Canis latrans mearnsi*; from Berry Ranch specimen.] *In*: Miscellaney [*sic*] [SECTION]. *Grand Canyon Nature Notes*, 9(3) (June):.
- 1934      19.5082      [Early record of fawn mule deer, South Rim, May 23.] *In*: Miscellaney [*sic*] [SECTION]. *Grand Canyon Nature Notes*, 9(3) (June):.
- 1934      19.5084      [Skink.] *In*: Field Observations [SECTION]. *Grand Canyon Nature Notes*, 9(7) (October):. [Skink collected "from the southwestern corner of Grand Canyon National Park" identified by Edward H. Taylor, University of Kansas, as (quoting Taylor) "an extremely rare species, at the moment still undescribed".]
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- 1937      19.67            Sky island. *Natural History*, 40(3): 558. [Shiva Temple expedition.]
- 1937      19.68            Grand Canyon expedition. *Natural History*, 40(3): 616. [Shiva Temple expedition.]
- 1937      19.69            The scene of the climb to Shiva's Temple in quest of a biological "lost world". *Illustrated London News*, 191 (September 25): 507-508. [Shiva Temple expedition.]
- 1937      19.70            Treasureless island. *Time*, 30 (October 4): 45-47. [Shiva Temple.]
- 1937      19.4122      20-day deer season in Kaibab opens Oct. 27. *Desert Magazine*, 1(1) (November): 36. [Deer hunting season, Kaibab Plateau.]
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- 1938      19.4124      Cameron. *In*: Here and There on the Desert [SECTION]. *Desert Magazine*, 1(5) (March): 20. ["Twelve Arizona hunters, 10 men and two women, were permitted to shoot one buffalo each from the state protected herd in House Rock canyon [House Rock Valley] on January 22. The names of the hunters were drawn by lot from 371

BIBLIOGRAPHY OF TERRESTRIAL VERTEBRATES OF THE GRAND CANYON REGION  
[INCLUDES BATS, EXCLUDES BIRDS]

**Anonymous** (continued)

applicants. Each hunter was permitted to retain one quarter of the meat, the head and the hide. The state reserved the right to sell the remainder of the meat." (ENTIRE ITEM)]

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| 1940 | 19.4125 | Flagstaff. <i>In:</i> Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 3(3) (January): 34. ["When George Andrakos, hotel employe at Grand Canyon, shot a coyote he was arrested, now faces trial in federal court at Prescott. Andrakos' target was semi-tame, had thrilled many tourists by practically eating out of their hands. In fact the coyote was so tame he sat often by the roadside waiting for motorists to stop and offer candy or cookies. Park Service regulations prohibit killing any wildlife in a national park." (ENTIRE ITEM)] |
| 1940 | 19.3103 | Arizona hunters shoot 55 buffalo to decrease size of state's herd. <i>Life</i> , 8(6) (February 5): 22-23. [House Rock Valley.]  |
| 1940 | 19.4126 | Flagstaff. <i>In:</i> Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 3(5) (March): 28. ["Twenty-three men and women made their kills in January in the first of two state-supervised buffalo hunts in remote Houserock Valley of northeastern Arizona. Another group of 25 hunters formed second expedition for trophies third week in February. Women in the first hunt were Mrs. Amy Wagner, Phoenix, and Mrs. Hazel Wittkop, Tucson." (ENTIRE ITEM)] [House Rock Valley.]   |
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| 1941 | 19.2614 | List of reserves that may serve as nature sanctuaries of national and international importance, in Canada, the United States, and Mexico. <i>Ecology</i> , 22(1) (January): 100-107. |
| 1941 | 19.2789 | [Beaver at Phantom Ranch displaced to Wall Creek.] <i>In:</i> Oddities [SECTION]. <i>Region III Quarterly</i> (U.S. National Park Service), 3(2) (April):.                           |
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| 1942 | 19.4127 | Renegade buffalo killed. <i>In:</i> Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 5(7) (May): 31. ["Old Renegade—one ton buffalo outlaw—will destroy no more for he was shot a short time ago and at request of Arizona's game and fish commission. For 17 years he held his own against all comers in Arizona's buffalo herd that roams House Rock valley, but when he was challenged and beaten by a younger bull, Old Renegade departed to become a destructive nuisance." (ENTIRE ITEM)] |
| 1942 | 19.4129 | New bison for Houserock. <i>In:</i> Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 5(10) (August): 29. ["Augmenting the Houserock valley bison herd, Arizona has introduced 12 more bulls and yearling calves, shipped from Wichita mountain game refuge near Lawton, Okla. Another bull, a three-year-old, was sent to Tovrea memorial zoo near Phoenix. State-owned here at Houserock valley has attracted many tourists." (ENTIRE ITEM)] [House Rock Valley.]                              |
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| 1944 | 19.4130 | Buffalo hunt in February. <i>In:</i> Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 7(4) (February): 31. ["Grand Canyon—Annual buffalo hunt in House Rock valley on North Rim has been set by state game department for February 12 and 13. Applications of 35 hunters and alternates were to be selected by Arizona game and fish commission, Phoenix, January 22. The herd is the only free-roaming one in existence, has furnished background for many historical motion pictures." (ENTIRE ITEM)] |
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BIBLIOGRAPHY OF TERRESTRIAL VERTEBRATES OF THE GRAND CANYON REGION  
[INCLUDES BATS, EXCLUDES BIRDS]

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- 1945 19.3809 Casey hits a double. *Time*, (July 30):. [Robert J. (Bob) Casey, Chicago Daily News reporter. Notes in part that "Once, when he heard that a couple of scientists were to climb to a Grand Canyon plateau never before trod by man, he flew over it dropping old whiskey bottles and Ford parts for the amazed scientists to find." (ENTIRE NOTE) Refers to the American Museum of Natural History's Shiva Temple expedition of 1937.]
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- 1949 19.4138 Girl shoots buffalo. *In:* Here and There on the Desert [SECTION]. *Desert Magazine*, 12(6) (April): 29. [Pauline Sinnett in state-sponsored hunt at House Rock Valley. Credited to *Aztec Independent Review*.]
- 1949 19.4139 Deer hunters' paradise. *In:* Here and There on the Desert [SECTION]. *Desert Magazine*, 12(12) (October): 29. [Two special open seasons for Kaibab buck mule deer. Item credited to *Tombstone Epitaph*.]
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- 1950 19.4144 Houserock buffalo being moved. *In:* Here and There on the Desert [SECTION]. *Desert Magazine*, 13(10) (August): 35. ["Phoenix—Arizona's buffalo, now located in Houserock Valley, are to be moved to avoid starvation, the state game and fish commission has announced. Half of the 125 animals are to go to the buffalo refuge on Anderson mesa. To find a permanent home for the last remaining Arizona buffalo, the commission siad it is waiving all rights to Houserock Valley in return for approximately

BIBLIOGRAPHY OF TERRESTRIAL VERTEBRATES OF THE GRAND CANYON REGION  
[INCLUDES BATS, EXCLUDES BIRDS]

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- 1952 19.4154 Cattle in Kaibab. *In*: Here and There on the Desert [SECTION]. *Desert Magazine*, 15(7) (July): 29. ["Grand Canyon—The United States Forest Service has decided to give cattle a permanent place on the Kaibab National Game Refuge, which was set aside by President Theodore Roosevelt in 1906 for the famous Kaibab deer herd. The action was taken because cattlemen agreed to reduce livestock use 38 percent through fall calf sales that would remove the annual increase. It is expected the admission of cattle to range lands will necessitate a larger deer hunt this fall.—*Arizona Republic*." (ENTIRE ITEM)]
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BIBLIOGRAPHY OF TERRESTRIAL VERTEBRATES OF THE GRAND CANYON REGION  
[INCLUDES BATS, EXCLUDES BIRDS]

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| 1975 | 19.6146 | Ponderosa pine and Abert squirrels. <i>Forestry Research</i> (U.S. Forest Service, Fort Collins, Colorado), (July): 6-7. [Research of David R. Patton. Includes Kaibab squirrel.] |
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| 1977 | 19.4106 | Grand Canyon burros get 1-year reprieve. <i>National Park Courier</i> (U.S. National Park Service, Employees and Alumni Association), 24(5) (May): 3. |
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[INCLUDES BATS, EXCLUDES BIRDS]

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BIBLIOGRAPHY OF TERRESTRIAL VERTEBRATES OF THE GRAND CANYON REGION  
[INCLUDES BATS, EXCLUDES BIRDS]

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BIBLIOGRAPHY OF TERRESTRIAL VERTEBRATES OF THE GRAND CANYON REGION  
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and both those species should be shot out of the entire Grand Canyon National Forest. It was on Buckskin and the western wall of the Canyon itself that 'Buffalo' Jones, Mr. Charles S. Bird, and their party caught nine live mountain lions, in 1909. [¶]I regret to say that 'Buffalo' Jones's catalo experiment on the Kaibab Plateau seems to have met an untimely and disappointing fate. For three years the bison and domestic cattle crossed, and produced a number of cataloes; but in 1911, practically the whole lot was wiped off the earth by cattle rustlers! Mr. Jones thinks that it was guerrillas from southern Utah who murdered his enterprise, partly for the reason that no other persons were within striking distance of the herd." (ENTIRE NOTE)]

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à discussão desse Clube em 1971, em Montebello, Canadá, depois publicado sob forma de livro em muitos idiomas (no Brasil, pela Editora Perspectiva).” [See pp. 380-383, “Anexo: *Síntese a partir, principalmente, do comentário de Bertran Murray Jr. . . . a propósito do informe The Limits to Growth do Clube de Roma. O comentário foi publicado no New York Times Magazine, dezembro de 1972, com o título de Continuos [sic] Growth or no Growth. What the ecologists can teach the economists.*” Reference is to Murray (1972, ITEM NO. 19.6245). See in this *Anexo*, p. 381, remarks on Kaibab deer.] [In Portuguese.] [NOTE: The original report, *The limits to growth : the Club of Rome’s project on the predicament of mankind*, by Donella H. Meadows, Dennis L. Meadows, Jørgan Randers, and William W. Behrens, III (numerous printings, e.g., New American Library, New York, 1972, A Potomac Associates Book), is focused on human population growth and its projected demands on resources and effects; it does not itself include any note of the often-cited example of the Kaibab deer population explosion as the result of predator reduction.]

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|------|---------|--|
| 2000 | 19.3897 | I’m the new Grand Canyon River Otter Reintroduction Program Good Will Ambassador! By “Noah,” (as told to Tracy Johnston). <i>The River Otter Journal</i> (The River Otter Alliance, Englewood, Colorado), 9(2) (Autumn): 1-2. [NOTE: “Noah” later renamed “Splash”.] |
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| 1938 | 19.6544 | Grand Canyon bucks. <i>Outdoor Life</i> , (September): 34-35, 83. [Mule deer hunting on the Kaibab Plateau.]   |
| 1939 | 19.3708 | Saving the vanishing mountain sheep. <i>Popular Science Monthly</i> , 135(4) (October): 136-139, 224. [See p. 224: “There are, [Andrew A.] Nichol is convinced, no more than 700 bighorns in Arizona, exclusive of the Boulder Dam recreational area and the |

BIBLIOGRAPHY OF TERRESTRIAL VERTEBRATES OF THE GRAND CANYON REGION  
[INCLUDES BATS, EXCLUDES BIRDS]

Grand Canyon National Park, where there may be 700 more. Twenty years ago they probably totaled 4,000.”]

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BIBLIOGRAPHY OF TERRESTRIAL VERTEBRATES OF THE GRAND CANYON REGION  
[INCLUDES BATS, EXCLUDES BIRDS]

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<sup>1</sup> Numerous items in early issues of *Grand Canyon Nature Notes* have been attributed without author (cited as "Anonymous" by convention in this bibliography). However, beginning with Vol. 1, no. 12 (May 31, 1927), the masthead on p. 1 lists G. E. Sturdevant as a by-line (not editor) for entire issues; thus citations herein have been emended where necessary. Issue by-lines ceased with Sturdevant's death; the final issue with it was Vol. 3, no. 7 (January 15, 1929).

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