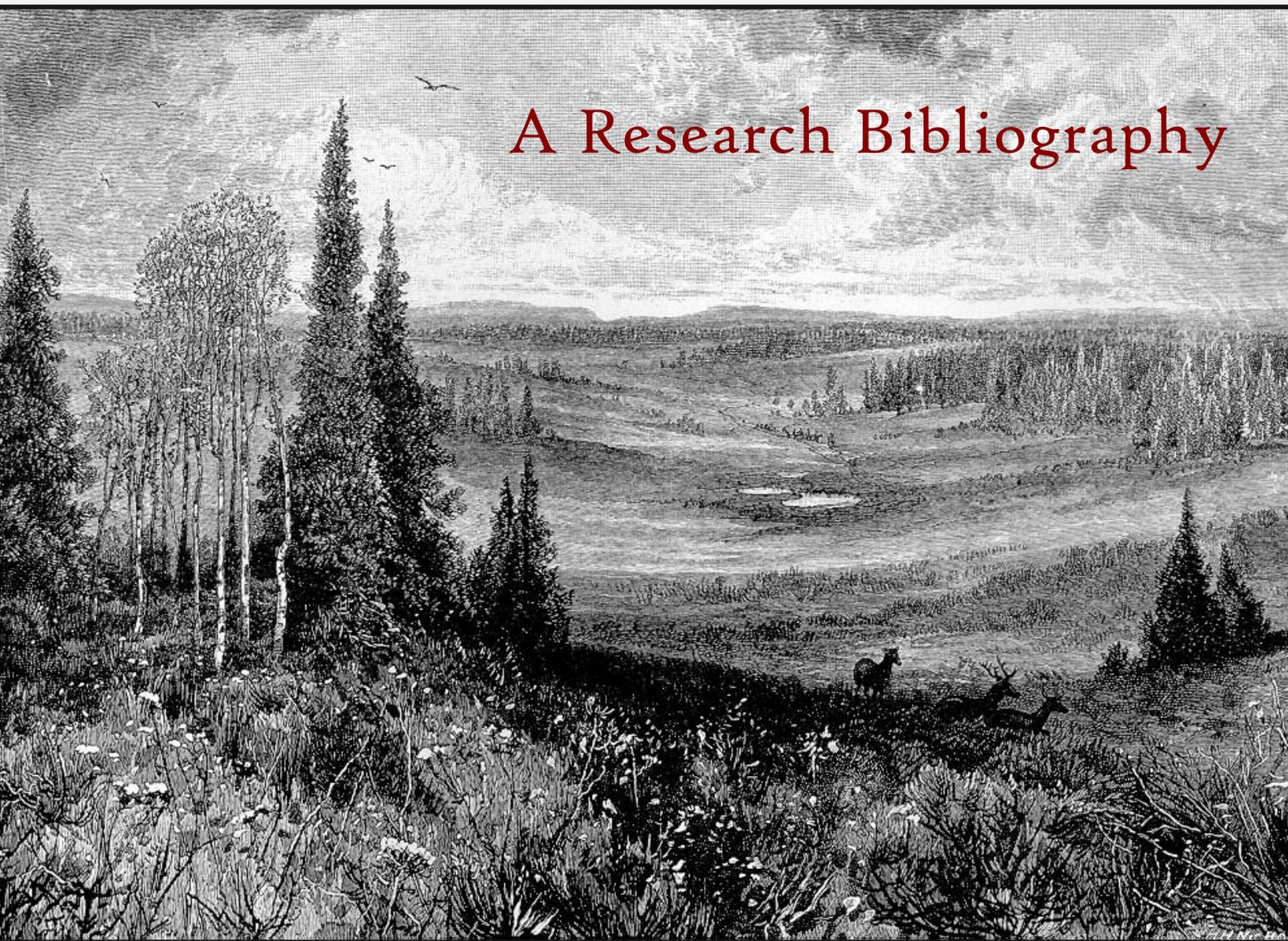


KAIBAB PLATEAU ECOLOGY

A Research Bibliography



EARLE E. SPAMER

COVER ILLUSTRATION. “**De Motte Park.**” Drawn by Thomas Moran, engraved by H. H. Nichols.

Clarence E. Dutton, *Tertiary History of the Grand Cañon District*. U.S. Geological Survey Monograph 2, (1882), Plate XXVI.

KAIBAB PLATEAU ECOLOGY



Moderate Resolution Imaging Spectroradiometer (MODIS) space image of the Kaibab Plateau, with eastern Grand Canyon and Marble Canyon, 20 April 2006

(National Aeronautics and Space Administration via Wikimedia Commons)

KAIBAB PLATEAU ECOLOGY

An Inclusive Research Bibliography

WITH ANNOTATIONS

(1893–2024)

Grand Canyon National Park (North Rim) and
Kaibab National Forest (North Kaibab Ranger District), Arizona

plus

A Chronological–Historical Bibliography of
Bioecology and Conservation of Kaibab Deer

EARLE E. SPAMER

KAIBAB PLATEAU ECOLOGY: A RESEARCH BIBLIOGRAPHY

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KAIBAB PLATEAU ECOLOGY
A Research Bibliography

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It is difficult to say precisely wherein the charm of the sylvan scenery of the Kaibab consists. We, who through successive summers have wandered through its forests and parks, have come to regard it as the most enchanting region it has ever been our privilege to visit. Surely there is no lack of beautiful or grand forest scenery in America, and it is a matter of taste what species of trees are the most pleasing. Probably few people would select the conifers and poplars as the highest types of arboreal beauty. I suspect that the charm consists in influences far more subtle than these outward forms. [. . .] There is a constant succession of parks and glades — dreamy avenues of grass and flowers winding between sylvan walls, or spreading out in broad open meadows. From June until September there is a display of wild flowers which is quite beyond description. The valley sides and platforms above are resplendent with dense masses of scarlet, white, purple, and yellow. It is noteworthy that, while the trees exhibit but few species, the humbler plants present a very great number, both of species and genera.

— Clarence Edward Dutton

Tertiary History of the Grand Cañon District
U.S. Geological Survey Monograph 2 (1882), p. 133

INTRODUCTION

THE KAIBAB PLATEAU of northern Arizona is a treasure. Once (and occasionally still informally) called the Buckskin Mountains, the plateau is part of the traditional homeland of the Paiute peoples, who know it as (in translation here) the Mountain Lying Down. The broadly arched plateau lies more or less at 8,000 feet in elevation (the apex is over 9,200 feet). Its eastern and southern edges rise over Marble Canyon and Grand Canyon and its western edge looks over the Kanab Plateau, while on its northern side it slopes toward the Utah–Arizona boundary. From Le Fevre Overlook along that downgrade one can see on the horizon the start of the geological stair-stepping Grand Staircase ascending to the north in Utah. The Kaibab’s structural geology is the stuff of textbooks, beyond the scope of this bibliography. But its ecology is a differently enthralling story. Unlike the canyons and plateaus that surround it, the Kaibab is heavily forested and set with open parklands that divulge karstic limestone areas that are the source of numerous springs in Marble and Grand Canyons.¹ Its stately ponderosa pines are home (and foodstuffs) to the Kaibab squirrel, found nowhere else on earth. Northern goshawks nest here, too, and have been the keen interest of environmental biologists for decades.

But the legacy that stands out is that of the deer—world-renowned as the “Kaibab deer” not because they are endemic to the plateau like the “Kaibab squirrel,” but for the remarkable lesson in which these ordinary mule deer featured in the early 20th century, when their environment was astonishingly altered by humans out to “protect” them. A protracted effort was made with the consent—the insistence even—of federal forest agencies to eradicate the top-of-the-food-chain animals, specifically wolves and mountain lions, that preyed on the deer. They were decimated by hunters (one of them, “Uncle Jim” Owens, became famous for his “lion hunts”; a few general-writing citations about him and his clients are added to this bibliography). The deer population soon surged—an irruption is the biological term—to the point that they far overgrazed their primary food plants; and then they too were decimated, by starvation. No less a figure than forester [Aldo Leopold](#), exemplary and pioneering environmentalist and conservationist, said it was so.

¹ Refer to Earle E. Spamer, *Groundwaters of the Grand Canyon Region, Arizona: A Research Bibliography* (Raven’s Perch Media, 2024).

Or so the lesson was told for decades. Later, biologists began to query the simplicity of predator–prey relationships in light of more broadly scoped ecological viewpoints that consider other impacts to the ecosystem, including wildfires. Some biologists (and game hunters) brand the lesson a myth. A (re)visionary biologist, [Dan Binkley](#), countered the newer lessons, speculating that Leopold had been right after all. Such is the main pathway of science—accepting or rejecting postulates according to evidence or interpretations of data that support or refute a stated problem.

The “lesson of the Kaibab” has been a mainstay of environmental education for a century, thus it is worthwhile to present here a separate chronological bibliography of the Kaibab deer literature. With it, the lesson’s historical track can be traced more easily through its publications, year by year, and from which an idea can also be grasped as to the lesson’s international breadth of interest.

The Kaibab Plateau, a rich resource of fauna and flora, also has provided those who study the differences between lifeforms (“systematics,” in their lingo) with many informative paths of inspection and discovery. It is one thing, though, to state that here is an abundance of animals and plants of many sorts that depend upon the plateau’s montane environment, but another to realize that it has revealed to biologists a plethora of taxa that were recognizably new to science.² (The descriptions are referred to as “taxonomy.”) The Native Americans who have lived in the region for millenia already knew many of these organisms through their presence or practical uses. But to those (mostly non-Natives) who scientifically study the skins and pressings of their trade many animals and plants were novel. Their work on the plateau is also summarized in this bibliography.

Physiographic outliers of the Kaibab Plateau are included in this bibliography because, for the want of a little less erosion through a topographic saddle that separates them from the main part of the plateau, they are not noticed as being any different from the whole plateau. These are Shiva Temple, Wotan’s throne, and Powell Plateau, about which nevertheless a variety of environmentally focused publications have been separately produced. Regarding Shiva Temple specifically, there was the sensationally advertised 1937 expedition by New York’s American Museum of Natural History that came to investigate the fauna that ostensibly had been “cut off” from the plateau “since the Ice Age.” One or two overeager, paper-selling journalists even brought up the “d” word—dinosaurs. Alas, nothing sensational came from the expedition because there is, ecologically, nothing extraordinary about these outliers, recorded now for the most part by routine, mute skins and skeletons in museum drawers.

² See in Earle E. Spamer, *Bibliography and Annotated Checklist of Living Organisms First Named from the Grand Canyon and Vicinity (Northwestern Arizona)* (Raven’s Perch Media, 2nd edition, 2024).

Environmentally, the Kaibab “buffalo” are a more recent surprise of a sort. While biologists and paleontologists offer data that indicate that bison had once been endemic to the region, these animals were not a part of the narrative when the “Kaibab deer” story came about. Yet now these bison are rather unwelcome on the plateau, in the Kaibab National Forest and the Grand Canyon National Park. They are the hybrid “beefalo” (or “cattalo” or “cattelo”) descendants of an experiment of the early 20th century, when “Buffalo Jones” (Charles Jesse Jones) established a colony of his hybrid animals in the more plains-like House Rock Valley at the eastern foot of the Kaibab Plateau.³ Widely known for his conservational efforts to preserve and restore the herds of the American bison, he also experimented with the husbandry of making a better-survivable cow by crossing bison with bovines. Even after Jones’s time, the House Rock herd endured and, under the Arizona state’s control were periodically open to hunting. In time, members of the herd wandered up the slope of what the geologists call the East Kaibab Monocline, and there found on top the sylvan land of the Kaibab. They stayed, reproduced, and became a problem to resource managers. Whether “indigenous” or not, their management called for culling or removing them, at least some of them, from the Kaibab. It is an ongoing issue, with “officially sanctioned” hunters awaiting and environmentalists decrying the hunts. Several “round-ups” have successfully been carried out, with the animals shipped to Native American bison sanctuary lands elsewhere.

In this bibliography, publications on Kaibab bison research and management are cited. And because the House Rock Valley experiment and later huntings are as much a part of the Kaibab’s modern bison story, citations pertaining to the House Rock Valley herd are also included. Likewise, a few general-writing citations about “Buffalo Jones” will be found, too.

Yet the plateau environment is not all plant and animal censuses. It has been rife with wildfires over time; some of them, while destructive to lifeforms, beneficially provide the ecological openings for others. This is not unique to the Kaibab, of course, but the plateau’s geographically contained area has provided wildfire environmentalists unique and well documented cases to study. And the administrative agencies who are tasked with controlling such fires—they once were vehemently anti-fire and unadvisedly squelched any and all flareups (recall Smokey Bear’s admonishments of years past)—sometimes now even set controlled fires to reencourage the natural order of low-level beneficial fires. Their work on the plateau, too, also appears herein.

³ True bison, taxonomically and systematically speaking (and depending on how much taxonomic “splitting” or “lumping” one may adhere to), can, employing subgenus and subspecies, be written as *Bison (Bison) bison bison*; and since its common name is also “bison”, the congruence of so many homographs may be unique in biology.

Omitted from this bibliography are publications that relate to the Arizona Strip on either side of the Kaibab Plateau (excepting the House Rock bison literature noted above).

Publications relating to the wide-ranging California Condor, and similarly to bats, are not considered here (unless they specifically mention the Kaibab Plateau) because these animals' ranges far exceed the limits of the plateau and various studies accordingly go far afield and may not particularly focus on the plateau.

The citations in this bibliography are extracted chiefly from Part 19 of the comprehensive bibliographical series, [THE GRAND CANON](#), Volume 1/Part A (Raven's Perch Media). That part also includes publications about broader ecological and environmental matters, embracing the greater Grand Canyon region. Also in the present bibliography are a few additional citations culled from Part 2 in [THE GRAND CANON](#) (comprising more commonplace works). These additions are present for their pertinent stories about Kaibab Plateau ecology; for example, mountain lion hunting.

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KAIBAB PLATEAU ECOLOGY

PART 1

Inclusive Bibliography

Grand Canyon National Park (North Rim) and
Kaibab National Forest (North Kaibab Ranger District), Arizona

Anonymous

- NO DATE 19.3487 Special deer conference. *In*: The Pennsylvania Deer Problem. *Pennsylvania Board of Game Commissioners, Bulletin 12* [re-release], [Part 2], pp. 48-50.
Re-release of *Bulletin 12* with pagination continued in added Part 2. See p. 49, notes on Kaibab Plateau.
- NO DATE 19.4566 *History of wildlife management in the Intermountain Region*. 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, ITEM NO. 19.1418).
- NO DATE 19.4029 Bill Hurst and the Kaibab squirrel. *The Lookout* (National Association of Forest Service Retirees), 7(5): [unpaginated]. [2013?]
- 1893 19.4 Arizona game preserves. *Arizona's Resources*, 1 (February): 18.
- 1899 19.3231 [Forest fire on Kaibab Plateau.] *In*: Forest Fires [SECTION]. *The Forester* (American Forestry Association), 5(7) (July): 168.
"Kanab, Utah.—Three immense forest fires swept Buckskin mountains, in northern Arizona and southern Utah. Over 100 square miles of timber on the Grand Canon forest reserve were destroyed." (ENTIRE NOTE)
- 1901 19.3180 Arizona's pine forest reserve. *The School Journal*, 62(25) (June 22): 706.
Brief note.
- 1905 19.4093 [Game preserve.] *Shooting and Fishing*, 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)

KAIBAB PLATEAU ECOLOGY: A RESEARCH BIBLIOGRAPHY

PART 1. INCLUSIVE BIBLIOGRAPHY

- 1905 19.3530 Kanab [NEWS]. To perpetuate the buffalo. Buffalo Jones on way to Grand Canyon with herd. *Deseret News*, (October 26): 9 [issue pagination].
- 1906 19.3531 Fredonia, Arizona [NEWS]. *Deseret News*, (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, ITEM NO. 19.3532.)
- 1906 19.3532 Fredonia, Arizona [NEWS]. Only 20,000 sheep will enter reserve—Buffalo bull again at large [and other news]. *Deseret News*, (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 here 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]. *Deseret News*, (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]. *Deseret News*, (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, Persian sheep have been secured by the company. Deer in herds are to be seen in the pines and quaking aspens. A movement is on foot to make the Buckskin mountains of this section a national game preserve." (ENTIRE NOTE)
- 1906 2.12913 [Buffalo Jones and Grand Canyon.] *The Philistine* (The Roycrofters, East Aurora, New York), 23(5) (October): 140-146.
- 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).

KAIBAB PLATEAU ECOLOGY: A RESEARCH BIBLIOGRAPHY

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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)
- 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.
- 1909 19.6 [Untitled note.] *The Nautilus* (Philadelphia), 23(6) (November): 84.
 "Messrs. [James H.] Ferriss and [Lorenzo E.] Daniels are exploring the Kaibab and Kanab plateaus for shells and ferns. In this little-known country north of the Grand Canyon of the Colorado, they report beautiful scenery, a superb climate, and plenty of shells." (ENTIRE NOTE)
- 1913 19.6450 Utah's theoretical forests. *Railway and Marine News* (Seattle, Washington), 11(12) (August 1): 15.
 ". . . outside of the Panguitch pine forests, and some of the timbered section bordering on the Grand Canyon of the Colorado, and Kaibab Plateau, there is probably no marketable timber procurable in the whole state of Utah."
- 1913 19.3505 Timber resources of Utah. *The Timberman* (Portland, Oregon), 15(1) (November): 51.
 Includes Kaibab Plateau, Arizona.
- 1914 19.3506 National Forest sale. *The Timberman* (Portland, Oregon), 15(3) (January): 48.
 Government authorization of "the sale of a billion feet of timber from the Kaibab forest in southern Utah and northern Arizona . . ." Also notes authority for the construction of a railroad by the purchasers.
- 1914 19.6596 Government offers billion feet of timber. *In: Congress and Legislation* [SECTION]. *American Lumberman* (Chicago), (2017) (January 10): 43-44.
 Kaibab Plateau. Also note boxed notice, p. 51, "National Forest Timber For Sale. One Billion Feet Eighty Per Cent Yellow Pine".
- 1914 19.6597 Kaibab National Forest timber sale. *In: Inland Empire* [SECTION]. *American Lumberman* (Chicago), (2018) (January 17): 68.
 Kaibab Plateau.
- 1914 19.4578 Proposed large timber sale. *In: Pertinent Information* [SECTION]. *Hardwood Record* (Hardwood Co., Chicago), 37(7) (January 25): 60.
 Kaibab Plateau.
- 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 19.4602 [Kaibab Plateau timber sale.] *In: Railway Information* [SECTION]. *The Railway Conductor*, 31(2) (February): 126.

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- 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.
- 1914 19.3507 [Kaibab Plateau timber sale.] *In*: Salt Lake and Utah [SECTION]. *The Timberman* (Portland, Oregon), 15(7) (May):.
- 1914 19.3563 [Botanical field trip.] *In*: News Items [SECTION]. *Torreya*, 14(6) (June): 113.
"Mr. W. W. Eggleston left New York May 8 for a trip, during May and June, to the Manti, Fillmore and Fish Lake Forests, Utah and the Kaibab Forest, northern Arizona. This latter region, north of the Grand Canon, Arizona, is very little known botanically, having been visited by Mr. Ivar Tidestrom in 1909, but perhaps not previously, by botanists." (ENTIRE ITEM)
- 1914 19.4576 [Kaibab Plateau timber sale.] *In*: News and Notes [SECTION]. *Forestry Quarterly*, 12(2) (June): 301-302.
- 1914 19.3508 [Kaibab Plateau timber sale.] *In*: Salt Lake and Utah [SECTION]. *The Timberman* (Portland, Oregon), 15(9) (July): 62.
Plans for Southwestern Pacific Railroad (newly incorporated) to utilize Kaibab timber for a new road between Denver and San Diego. "The new line will pass through the Kaibab plateau and skirt the Grand Canyon of the Colorado in Utah and Arizona."
- 1914 19.4577 [Kaibab Plateau timber sale.] *In*: News and Notes [SECTION]. *Forestry Quarterly*, 12(4) (December): 647.
- 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)
- 1915 19.6452 [Filler.] *The Christian Register* (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.] *American Sheep-Breeder and Wool-Grower* (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.]

KAIBAB PLATEAU ECOLOGY: A RESEARCH BIBLIOGRAPHY

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- 1915 19.5869 A senseless dipping order. *National Wool Grower* (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.
- 1917 2.14393 On the Grand Canyon's rim; thirty miles of desert riding with the sun sizzling at 100 degrees and a fifty-mile run through the Kaibab National Forest, where bears and mountain lions often enliven things for the tourist, were features of this motorcycle trip. Pack animals carried gasoline. Fruitless attempt to take motorcycle down precipitous Bright Angel Trail by hand afforded additional excitement. *Motor Cycle Illustrated*, 13(6) (February 8): 10-11. ("By the Explorer".) ("The writer of this article is a minister who uses a motorcycle in connection with his duties in a small Arizona town.")
Regarding a trip from Salt Lake City to the North Rim; with guide D. D. Rust in the Buckskin Mountains (Kaibab Plateau). Take note of photo, p. 11, with legend, "On the Way to Bright Angel Point, the Beginning of the Famous Bright Angel Trail."
- 1917 19.3802 Crossing the buffalo with beef cattle. *Popular Mechanics Magazine*, 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.
- 1921 19.3228 Deer in Grand Cañon saved from extinction. *Popular Mechanics Magazine*, 35(1) (January): 83.
- 1921 19.3489 [Brief notice by Jesse Nusbaum of deer and geese on Kaibab Plateau.] *In: Along the Trail* [SECTION]. *Santa Fe Magazine*, 15(4) (March): 66.
- 1922 19.4084 Undeveloped timber section of Arizona; over one billion feet contained in the 300,000-acre area. *The Timberman* (Portland, Oregon), 23(5) (March): 114, 117.
Kaibab Plateau.
- 1922 19.3734 Barkbeetles menace to Grand Canyon forests. *Lumber* (Chicago), 70 (October 20): 44.
Grand Canyon National Park and Kaibab National Forest. [Bark beetles.]
- 1924 19.3494 Estimate made of big game animals on national forests. *California Fish and Game*, 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.] *Wholesale Grocery Review*, 25(10) (October): 17.
- 1924 19.3495 Committee to help solve Kaibab deer herd problem. *California Fish and Game*, 10(4) (October): 196.
- 1924 19.6626 Deer given away. *In: News Notes* [SECTION]. *The Pathfinder* (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)

KAIBAB PLATEAU ECOLOGY: A RESEARCH BIBLIOGRAPHY

PART 1. INCLUSIVE BIBLIOGRAPHY

- 1924 19.6749 Advises reducing Kaibab deer herd one-half; Secretary Wallace's citizen advisory committee finds serious facts, faces them spiritedly, and makes summary recommendations. *National Parks Association, Bulletin*, (41) (October 23):.
- 1924 19.6625 New kind of squirrel. *In: Things Scientific* [SECTION]. *The Pathfinder* (Washington, D.C.), 31(1610) (November 11): 11.
Kaibab squirrel.
- 1924 19.7 A great forest threatened. *American Forests and Forest Life*, 30: 359.
- 1924 19.8 Starvation threatens Kaibab deer. *American Forests and Forest Life*, 30: 663, 692-693.
- 1925 19.9 The Kaibab deer drive. "An interesting failure". *American Forests and Forest Life*, 31: 80.
- 1926 19.10 Problem of over-conservation in the Grand Canyon National Game Preserve. *Bird-Lore*, 28 (January): 88-90.
- 1927 19.3453 The Grand Canyon buffalo herd. *American Bison Society, Report, 1924-1926*, pp. 41-43.
House Rock Valley bison.
- 1927 19.15 Arizona deer herd hit by starvation. *American Forests and Forest Life*, 33: 374.
- 1928 19.3485 [Note.] *In: Division Notes* [SECTION]. *The Ark* (Museum of Zoology, University of Michigan, Ann Arbor), 7(4) (December): 3.
"The Division of Mammals 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)
- 1929 19.51 Along the trails. *Grand Canyon Nature Notes*, 4(1) (September 30): 6-7.
Brief notes include mountain sheep on North Rim along McKinnon Point Trail and near Cliff Springs, belted kingfisher at Bright Angel Point, and migrating birds on the Kaibab.
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 "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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 "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)

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 "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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 "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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 "Grand Canyon—Hunters will crop 50 buffalo from the state owned herd in House Rock valley north of here February 3 and 4, in order to maintain the herd at 200, which is carrying capacity of the range. Herd produced 51 known calves the past season. The 50 hunters, drawn by lot, will be allowed to keep head, hide and one front quarter and may buy one other quarter at 25-35 cents per pound. No commercialization of the meat is permitted." (ENTIRE ITEM)
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 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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 Offer to reduce House Rock Valley buffalo range involves less suitable lands. Item credited to *Coconino Sun*.
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 "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 100,000 acres of range in the Kaibab National Forest.—*Coconino Sun*." (ENTIRE ITEM) [House Rock Valley.]
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enumerated plates of illustrations are embedded on those same pages. Locality data are given here only in condensed format, documenting just the geographic locale, although each published description includes collection information such as altitude, host material, collector, date of collection, and repository and catalog number of the material. Some descriptions also note material that is "not included"; these specimens "deviate from the established taxa only in some minor points . . . [though] mentioned under that taxon which appears to be most closely related, but they are not included in a description, nor are they proposed as a separate new species." (p. 17) The "not-included" materials, although taxonomically not precisely identified, are mentioned here because they document collections from the region that this bibliography covers. (Future researchers, of course, may indeed consider some such material to belong to the species under which Baral *et al.* have listed it.) For greater convenience in distinguishing Grand Canyon regional material that is, or is not, directly pertinent to a new species described by the authors, in the information that follows "**new species**" is indicated in **bold** if the regional cited material is systematically identified as that species; but as "new species" (not bold) if it is a new species in Baral *et al.* but for which collections from the region are *only* noted to be "not included" (that is, they are mentioned for their geographic information and not as any taxonomic support for the newly described species, thus resource managers are alerted to the fact that there is material gathered from this geographical region but that it is not necessarily considered by these authors to represent the species under which it is listed).

Taxa are enumerated here for convenience and to set them off from each other on the printed page (all localities are specifically noted by Baral *et al.* as being in Arizona, although some locality references to "Grand Canyon" are actually neither within the physiographic canyon nor within the national park, but on adjacent national forest and other lands).

The following are extracts from the much more comprehensive citation in THE GRAND CANON (Part 19), which includes more data from locales beyond the Kaibab Plateau. Omitted numbers were not pertinent to the present Kaibab Plateau bibliography. All locality data are as published.

[1] *Orbilina purshiae* Baral & G. Marson, **new species** (pp. 466-468), holotype from "Grand Canyon, Kaibab Plateau, 28 km ESE of Fredonia, 13 km NNW of Jacob Lake"; included material from "93 km SSE of Fredonia, S of North Rim".

[2] *Orbilina lentiformis* Baral & G. Marson, new species (pp. 470-476); not-included material from "Grand Canyon, Kaibab Plateau, 28 km ESE of Fredonia, 13 km NNW of Jacob Lake, Rte. 89".

[5] *Orbilina magnifica* Baral & G. Marson, **new species** (pp. 509-511, holotype and isotypes from "Grand Canyon, Kaibab Plateau, 37 km SE of Fredonia, S of Jacob Lake"; included material from "3 km N of Kaibab Lodge"

[8] *Orbilina euonymi* Velen. (1934) (pp. 532-538); included material from "Grand Canyon, Kaibab Plateau, 93 km SSE of Fredonia, S of North Rim"

[9] *Orbilina arizonensis* Baral & G. Marson, **new species** (pp. 553-556); included material from "Grand Canyon, Kaibab Plateau, 28 km ESE of Fredonia, 13 km NNW of Jacob Lake", "93 km SSE of Fredonia, S of North Rim". [11] *Orbilina clavuliformis* Baral & G. Marson, new species (pp. 680-686); not-included material from "Grand Canyon, Kaibab Plateau, 28 km ESE of Fredonia, 13 km NNW of Jacob Lake"

[12] *Orbilina aristata* (Velen.) Velen. (1947) (pp. 709-719); included material from "Grand Canyon, 3 km N of Kaibab Lodge"

[13] *Orbilina spermoides* Baral & G. Marson, **new species** (pp. 734-737), holotype from "Coconino Plateau, 3 km N of Tusayan"; included material from "Grand Canyon, Kaibab Plateau, 28 km ESE of Fredonia, 13 km NNW of Jacob Lake"

[14] *Orbilina carpoboloides* (P. & H. Crouan) Baral (1994) (pp. 1025-1040); not-included material from "Grand Canyon, Kaibab Plateau, 37 km SE of Fredonia, S of Jacob Lake"

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[18] *Orbilina maeandrina* Baral & G. Marson, **new species** (pp. 1075-1078); included material from "Grand Canyon, Kaibab Plateau, 28 km ESE of Fredonia, 13 km NNW of Jacob Lake", "93 km SSE of Fredonia, S of North Rim", "3 km N of Kaibab Lodge"

[19] *Orbilina multimaeandrina* Baral & G. Marson, **new species** (pp. 1078-1082); included material from "Grand Canyon, Kaibab Plateau, 28 km ESE of Fredonia, 13 km NNW of Jacob Lake"

[20] *Orbilina flexisoma* Baral & G. Marson, **new species** (pp. 1095-1098), holotype from "Coconino Plateau, 3 km S of Tusayan"; included material from "Grand Canyon, Kaibab Plateau, 93 km SSE of Fredonia, S of North Rim"; not-included material from "Grand Canyon, Kaibab Plateau, 28 km ESE of Fredonia, 13 km NNW of Jacob Lake"

[21] *Orbilina delphinus* Baral & G. Marson, **new species** (pp. 1105-1110); included material from "Grand Canyon, Kaibab Plateau, 93 km SSE of Fredonia, S of North Rim"

[22] *Orbilina macrodelphinus* Baral & G. Marson, **new species** (pp. 1113-1116); included material from "Grand Canyon, Kaibab Plateau, 28 km ESE of Fredonia, 13 km NNW of Jacob Lake"

[24] *Orbilina serpentina* Pat. (1892) (pp. 1124-1129); included material from "Grand Canyon, Kaibab Plateau, 28 km ESE of Fredonia, 13 km NNW of Jacob Lake"

[27] *Orbilina barrowensis* Baral & G. Marson, **new species** (pp. 1198-1200); not-included material from "Canyonlands, 45 km SW of Page, 26 km SW of Marble Canyon"

[28] *Orbilina gambelii* Baral & G. Marson *in* Karasch *et al.* (2005) (pp. 1200-1205); included material from "Grand Canyon, Kaibab Plateau, 93 km SSE of Fredonia, S of North Rim"

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contamination with *L. Wrightii*). YUMA: (?) Buckskin Mountains, 9000 ft. alt., *M. E. Jones 6052g*, Sept. 17, 1894 (US, Cla with no number)." (Ottley adds the following footnote regarding the "Yuma County" record: "I have been unable to determine from a perusal of Jones' account of his collection of 1894 given in the *Contributions to Western Botany*, No. 7, 1895, whether or not the Buckskin Mountains where he collected on Sept. 15, 17, 18, 20, and 21 are in Yuma County, Arizona. The only mountains of that name that we find on the maps are in that county, but they are considerably farther south than any of the other localities for *L. utahensis*. We doubt if the Yuma County mountains are the ones to which Jones refers, especially since he was collecting near Carmel, Utah, on Sept. 13 and on Sept. 16 and 23 at or near Springdale, Utah." [Accordingly, this record, particularly given its 9000-ft altitude, must refer to the Kaibab Plateau.]

See also ***Lotus wrightii* (Gray) Greene** (pp. 113-115), which includes the following material examined: "COCONINO . . . Kaibab Forest, *E. C. Jaeger* (Cla 160123); roadside bank, north rim, Grand Canyon, 8400 ft. alt., *Ferguson & Ottley 5570*, prostrate to erect (Wel); Kaibab National Forest, Grand Canyon, 2100-2500 m. alt., *Eggleston 10219* (US); common, pine forest, vicinity of Jacob's Lake, 7509 ft. alt., *Maguire & Maguire 12262* (Ut); yellow pine association, Jacob's Lake, 7500 ft. alt., *Cottam 2637* (By); 3 mi. n. of Jacob's Lake, 8100 ft. alt., *Ferguson & Ottley 5581*, not quite typical, may have a trace of *L. utahensis* (Wel).

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Wolf, Joy Nystrom, AND Mast, Joy J.

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Includes Kaibab Plateau.
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Wonders, Karen

- 1993 19.2173 Habitat dioramas; illusions of wilderness in museums of natural history. *Acta Universitatis Upsaliensis, Figura Nova Series 25* (Uppsala), 262 [263] pp.
Doctoral dissertation, 1993. See pp. 180-181, fig. 100, "Mountain Lion Group" at American Museum of Natural History, which illustrates a scene on the North Rim of Grand Canyon.

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Woodbridge, Brian, AND Hargis, Christina D.

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North Kaibab Ranger District.

Wright, J. T.

- 1950 19.1904 *Cooperative Kaibab North livestock-deer forage relationship study*. Arizona Game and Fish Commission, Wildlife Restoration Division.

Wu, Yueqiao; Sang, Mengting; AND Wang, Wei

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(<https://doi.org/10.3390/appl12189113>).
LiDAR datasets include "Mapping the Kaibab Plateau, AZ" (no separate citation provided).

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- 2013 19.5451 Historical high-severity fire in mixed-conifer forest, Grand Canyon North Rim [ABSTRACT]. *In: 12th Biennial Conference of Science and Management on the Colorado Plateau, September 16-19, 2013, Northern Arizona University, Flagstaff, Arizona : program and abstracts of presented papers and posters*. [Flagstaff, Arizona: Northern Arizona University], p. 133.

Yool, Stephen R.

- 2001 19.4436 Enhancing fire scar anomalies in AVHRR NDVI time-series data. *Geocarto International* (Hong Kong), 16(1) (March): 7-14.
Advanced Very High Resolution Radiometer; Normalized Difference Vegetation Index. Space-based imagery. Includes Kaibab Plateau.
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- 1998 19.2317 Defining the range: Carrying capacity in the history of wildlife biology and ecology. *Journal of the History of Biology*, 31(1) (Spring): 61-83.
- 2000 19.2318 A textbook history: Use of the Kaibab lesson in teaching biology. *American Biology Teacher*, 2(8) (October): 559-564.
- 2002 19.2269 *In the absence of predators : conservation and controversy on the Kaibab Plateau*. Lincoln (Nebraska) and London: University of Nebraska Press, 269 pp.
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- 1956 19.1918 The deer, the Indians and the American pioneers. *In*: Taylor, Walter P. (ed.), *The deer of North America : the white-tailed, mule and black-tailed deer, genus Odocoileus : the history and management*. Harrisburg, Pennsylvania: Stackpole Co., and Washington, D.C.: Wildlife Management Institute, pp. 1-27.
See pp. 4, 11.
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Zerba, Kim E., AND Collins, James P.

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Tiger salamanders, *Ambystoma tigrinum nebulosum*. Study sites are two limestone sinkholes on the Kaibab Plateau in Grand Canyon National Park—Greenland Lake and Coffee Lake.
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KAIBAB PLATEAU ECOLOGY

PART 2

Chronological–Historical Bibliography of Bioecology and Conservation of Kaibab Deer

Date Undetermined

Anonymous

- NO DATE 19.3487 Special deer conference. *In*: The Pennsylvania Deer Problem. *Pennsylvania Board of Game Commissioners, Bulletin 12* [re-release], [Part 2], pp. 48-50.
Re-release of *Bulletin 12* with pagination continued in added Part 2. See p. 49, notes on Kaibab Plateau.

1905

Anonymous

- 1905 19.4093 [Game preserve.] *Shooting and Fishing*, 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)

1906

Anonymous

- 1906 19.3534 Toquerville [NEWS]. *Deseret News*, (September 4): 3 [issue pagination].
"Deer in herds are to be seen in the pines and quaking asps. A movement is on foot to make the Buckskin mountains of this section a national game preserve."
(ENTIRE NOTE)

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1909

Pinchot, Gifford

- 1909 19.3497 *Report of the Forester for 1909*. Washington, D.C.: U.S. Government Printing Office.
Offprint from U.S. Department of Agriculture, Annual Report. See p. 28: "The extermination of noxious animals and complete protection of game upon the Wichita and Grand Canyon national game preserves has caused large increases in the number of the game birds and animals." (ENTIRE NOTE) Kaibab Plateau.

1910

Pinchot, Gifford

- 1910 19.3498 *Report of the Forester for 1910*. Washington, D.C.: U.S. Government Printing Office.
Offprint from U.S. Department of Agriculture, Annual Report. See pp. 44-45, notes on Grand Canyon Game Preserve, including, "Upon the Grand Canyon Preserve the deer have multiplied beyond all expectation" (i.e., Kaibab Plateau; no further note).

1911

Graves, Henry S.

- 1911 19.3499 *Report of the Forester for 1911*. Washington, D.C.: U.S. Government Printing Office.
Offprint from U.S. Department of Agriculture, Annual Report. See p. 58: On the Grand Canyon National Game Preserve "all species of game animals and birds multiplied encouragingly." (ENTIRE NOTE)

1912

Graves, Henry S.

- 1912 19.3500 *Report of the Forester for 1912*. Washington, D.C.: U.S. Government Printing Office.
Offprint from U.S. Department of Agriculture, Annual Report. See pp. 67-68: Notice of increases in animal populations on Grand Canyon Game Preserve. "No attempt has been made to stock the Grand Canyon game refuge with introduced species, and the only game animals within the refuge are those indigenous to the locality, which have multiplied encouragingly." (p. 68) (ENTIRE NOTE)

1913

Graves, Henry S.

- 1913 19.3501 *Report of the Forester for 1913*. Washington, D.C.: U.S. Government Printing Office.
Offprint from U.S. Department of Agriculture, Annual Report. See p. 38: "On the Grand Canyon game refuge the deer and birds native to the region have multiplied in such numbers that the success of the preserve is assured." (ENTIRE NOTE)

Hornaday, William T.

- 1913 19.778 *Our vanishing wild life : its extermination and preservation*. New York: New York Zoological Society, 411 pp.
See pp. 339 (map), and 343: "The Grand Canyon National Game Preserve of northern Arizona, embraces the entire Grand Canyon of the Colorado River, for a meandering distance of 101 miles, and adjacent territory to an extent of 2,333 square

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miles (1,492,928 acres). Owing to certain conditions, natural and otherwise, it is not the finest place in the world for the peaceful increase of wild game. The Canyon contains a few mountain sheep, and mule deer, but Buckskin Mountain, on the northwestern side, is reeking with mountain lions and gray wolves, 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.

1914

Anonymous

- 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.

Graves, Henry S.

- 1914 19.3502 *Report of the Forester for 1914*. Washington, D.C.: U.S. Government Printing Office.
Offprint from U.S. Department of Agriculture, Annual Report. See p. 10, note of contract sale of 1,000,000,000 [board] feet of western yellow pine on the Kaibab National Forest. See p. 23: "The deer within the Grand Canyon Game Refuge have increased, it is estimated, to 10,000 in number as the result of the active campaign against their natural enemies, the mountain lion and bobcat, together with the almost complete prevention of hunting. There has been a corresponding gain in other species indigenous to the region." (ENTIRE NOTE)

1915

Anonymous

- 1915 19.6452 [Filler.] *The Christian Register* (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)

1921

Anonymous

- 1921 19.3228 Deer in Grand Cañon saved from extinction. *Popular Mechanics Magazine*, 35(1) (January): 83.
- 1921 19.3489 [Brief notice by Jesse Nusbaum of deer and geese on Kaibab Plateau.] *In*: Along the Trail [SECTION]. *Santa Fe Magazine*, 15(4) (March): 66.

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1923

Goldman, Edward A.

- 1923 19.4659 The deer of the Grand Canyon National Game preserve. *Washington Academy of Sciences, Journal* (Washington, D.C.), 13(16): 374.

Goldman, Edward A., AND Locke, S. B.

- 1923 19.640 The mountain of twenty thousand deer. *American Forestry*, 29: 649-653, 682.

Jackson, Hartley H. T.

- 1923 19.3193 Fifth Annual Meeting of the American Society of Mammalogists. *Journal of Mammalogy*, 4(3): 205-207.
See p. 206, notice of presentation: "Deer of the Grand Canyon Game Preserve, Arizona. E. A. Goldman. Twenty minutes. Lantern slides." (ENTIRE NOTE)

1924

Anonymous

- 1924 19.3494 Estimate made of big game animals on national forests. *California Fish and Game*, 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.] *Wholesale Grocery Review*, 25(10) (October): 17.
- 1924 19.3495 Committee to help solve Kaibab deer herd problem. *California Fish and Game*, 10(4) (October): 196.
- 1924 19.6626 Deer given away. *In*: News Notes [SECTION]. *The Pathfinder* (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 19.6749 Advises reducing Kaibab deer herd one-half; Secretary Wallace's citizen advisory committee finds serious facts, faces them spiritedly, and makes summary recommendations. *National Parks Association, Bulletin*, (41) (October 23):.
- 1924 19.8 Starvation threatens Kaibab deer. *American Forests and Forest Life*, 30: 663, 692-693.

Barnes, Will C.

- 1924 19.5809 Those Kaibab deer. *The Forest Worker* (U.S. Forest Service), 1 (November):.

Grinnell, George B.

- 1924 19.691 The starving deer of the Kaibab Forest. *The Outlook* (New York), 136: 186-187.

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1924 19.3486 Necessary to remove surplus deer. *Yale Forest School News*, 11(4) (October): 64-65.

Mather, Stephen T.

1924 19.2314 Are Kaibab deer doomed? *Outdoor America*, 3(5) (November): 14-17, 59, 61, 63-65.

1925

Anonymous

1925 19.9 The Kaibab deer drive. "An interesting failure". *American Forests and Forest Life*, 31: 80.

Hough, Donald

1925 19.2313 The phantom herd of the Kaibab. *Outdoor America*, 3(12) (July): 5-7, 72-73.

Johnson, Steven S.

1925 19.2311 The Kiabab [*sic*] deer. *In*: Letters to the Editor. *The New York Times*, (February 20) (Section 7), p. 12.

Pearson, T. Gilbert

1925 19.4951 Conservative conservation; President [of] Audubon Association delivers forceful address before twentieth annual gathering of association in New York. *Game and Fish Conservationist* (Virginia Department of Game and Inland Fisheries), 4(4) (January/February [*also as* February 1]): 88-89.
See p. 88, remarks on the speaker's investigation of the Kaibab Plateau deer herd.

Rose, H. B.

1925 19.5810 Those Kaibab deer. *Western Sportologue*, (February 10): 22.

1926

Anonymous

1926 19.10 Problem of over-conservation in the Grand Canyon National Game Preserve. *Bird-Lore*, 28 (January): 88-90.

Canady, Buel H.

1926 2.30526 Sportsmen attention; deer hunting on the North Rim of the Grand Canyon in the Kaibab Plateau, Arizona. *Santa Fe Magazine*, 20(10) (September): 89.
Full-page deer hunting advertisement by Buel of Winslow, Arizona. Various notes: "Hunting from October 1st to 31st (inclusive)." "Taxidermist in camp to take care of your trophies." "Buffalo Meat Served Every Day In Camp." "Radio Concert Each Evening." "Overnight stop made going in and coming out at Lee's Ferry on the Colorado River." "A suitable camp will be maintained so that Sportsmen may bring their wives."

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Du Puy, William Atherton

- 1925 19.2310 Forest reserve becomes a range of death: Great deer herd, isolated on an Arizona plateau, is dying rapidly of starvation. *New York Times Magazine*, (February 15): 8.

Goldman, Edward A.

- 1926 19.5043 Surplus game—A problem in administration. *American Game*, (April): 28-31. Features Kaibab Plateau deer.
- 1926 19.4660 Over-browsing by Kaibab deer. *Washington Academy of Sciences, Journal* (Washington, D.C.), 16(4): 101.

Rutledge, R. H.

- 1926 19.2321 A problem of over-conservation. *Bird-Lore*, 28(1) (January/February): 88-90. Letter, preceded by anonymous introduction. Kaibab Plateau.

Scoyen, E. T. [Scoyen, Eivind T.]

- 1926 19.1440 Kaibab deer arrives on South Rim. *Grand Canyon Nature Notes*, 1(6) (September 22): 5-6.
Comments on the Kaibab deer drive, followed by recollection of "Chummie", a fawn, driven to the South Rim on a two-day automobile trip with ranger Fred Johnson. Special note is made that it is the first and thus far only Kaibab deer to have successfully reached the South Rim.
- 1994 19.1444 Kaibab deer . . . on South Rim. *In*: Lamb, Susan (ed.), *The best of Grand Canyon Nature Notes*. Grand Canyon, Arizona: Grand Canyon Natural History Association, pp. 127-128.
Reprinted from *Grand Canyon Nature Notes*, September, **1926**; ellipsis is part of title.

1927

Anonymous

- 1927 19.15 Arizona deer herd hit by starvation. *American Forests and Forest Life*, 33: 374.

Sturdevant, Glen E.

- 1927 19.1613 "Pal". *Grand Canyon Nature Notes*, 2(3) (August 31): 4.
Ranger A. L. Brown at Bright Angel Ranger Station, North Rim, adopted deer fawn. "Pal" originally named "Pot" after "the famous lion dog of 'Uncle' Jim Owens" and is popular with tourists. See also Anonymous (1927), Pal killed by mountain lion. *Grand Canyon Nature Notes*, 2(7) (December 15): 1.

1928

Anonymous

- 1928 19.3485 [Note.] *In*: Division Notes [SECTION]. *The Ark* (Museum of Zoology, University of Michigan, Ann Arbor), 7(4) (December): 3.
"The Division of Mammals 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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Bell, Hugh Stevens

- 1928 19.232 Land of too many deer; another view of the Kaibab problem. *Nature Magazine*, 11: 299-303.

Sturdevant, Glen E.

- 1928 19.5374 Deer arrive at Bright Angel Point. *Grand Canyon Nature Notes*, 2(12) (May 31): 2.
1928 19.38 Kaibab fawn captured. *Grand Canyon Nature Notes*, 3(1) (June 30): 2.

1929

Bailey, Vernon

- 1929 19.200 Deer conditions on the Kaibab up to August 5, 1929. *Grand Canyon Nature Notes*, 3(12) (August 31): 1-2.

Locke, S. B.

- 1929 19.5044 Transplanting deer. *American Forests*, (October): 625-628.
Kaibab Plateau deer.

Patraw, P. P. [Patraw, Preston P.]

- 1929 19.1279 Flying deer. *Grand Canyon Nature Notes*, 4(2) (October 31): 9-10.
Eight fawns from the Kaibab herd flown on a Scenic Airways tri-motor from Fredonia to Red Butte, then delivered to Grand Canyon village.
1994 19.1285 Flying deer. *In*: Lamb, Susan (ed.), *The best of Grand Canyon Nature Notes*. Grand Canyon, Arizona: Grand Canyon Natural History Association, p. 128.
Reprinted from *Grand Canyon Nature Notes*, October, **1929**; Kaibab deer sent to South Rim.

Sturdevant, Glen E.

- 1929 19.1624 Fawns arrive from Kaibab. *Grand Canyon Nature Notes*, 3(8) (February 28): 4-5.

1930

Anonymous

- 1930 19.3216 Deer fawns travel by plane to restock herd. *Popular Mechanics Magazine*, 53(1) (January): 81.
Kaibab deer fawns flown from Fredonia to Red Butte.
1930 19.53 Odds and ends. *Grand Canyon Nature Notes*, 4(10) (August 30): 69-71.
Includes deer range on North Rim.

Adams, Charles C.

- 1930 19.5815 Rational predatory animal control. *Journal of Mammalogy*, 11(3) (August): 353-362.
Symposium paper; includes discussion. Includes remarks on Kaibab Plateau.

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Jones, Stephen B.

- 1930 19.835 Climbing deer. *Grand Canyon Nature Notes*, 4(5) (March): 32.
North Rim observation.

Locke, S. B.

- 1930 19.2149 The study of big game ranges. *Ecology*, 11(4) (October): 770.
Features Kaibab Plateau deer.

1931

Seymour, Edmund

- 1931 19.3454 Arizona problems. The Kaibad [*sic*] deer, Arizona bison herd and Grand Canyon park extensions. A report of an investigation made for the American Bison Society in May, 1930. *American Bison Society, Report, 1927-1930*, pp. 33-42.
Kaibab spelled correctly in text.

1932

Anonymous

- 1932 19.3707 Deer given with auto boomed business. *Popular Mechanics Magazine*, 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 deer raised on the outskirts of the famous Kaibab national forest that overhangs the northern rim of the Grand canyon" [*sic*].

McHenry, Donald Edward

- 1932 19.1017 Field observations. *Grand Canyon Nature Notes*, 7(7) (October):.
Mule deer bucks in combat near North Rim ranger station.

Osgood, Wilfred H.

- 1932 19.2409 American deer. *In*: Gray, Prentiss N. (ed.), *Records of North American big game : published under the auspices of the National Collection of Heads and Horns, New York Zoological Society : a book of the Boone and Crockett Club*. New York: Derrydale Press, pp. 17-35.
See pp. 18[?], 31.

1933

Leopold, Aldo

- 1933 19.2444 Game *management*. (Drawings by Allan Brooks.) New York and London: Charles Scribner's Sons, 481 pp.

Musgrave, M. E.

- 1933 19.5045 Dietary habits of antelope and deer; what stomach tests reveal concerning the food choice of these animals in the southwestern states. *New Mexico* (New Mexico State Highway Department, and New Mexico Department of Game and Fish, Santa Fe), 11 (October): 30-31.
Includes Kaibab Plateau deer.

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Musgrave, M. E.

- 1934 19.5046 Game management in Arizona and New Mexico. *The National Waltonian* (Izaak Walton League of America), (February): 4-5, 14.
Includes Kaibab Plateau deer.

1935

Bailey, Vernon

- 1935 19.202 Mammals of the Grand Canyon region. *Grand Canyon Natural History Association, Natural History Bulletin 1*, 42 pp.

Taylor, Walter P.

- 1935 19.2166 Significance of the biotic community in ecological studies. *Quarterly Review of Biology*, 10(3) (September): 291-307.
Notes, *in passing* (p. 295), "Abnormal increase of the deer on the Kaibab National Forest in northern Arizona threatened the very existence of important elements of their forest habitat."

1936

Nichol, A. A. [Nichol, Andrew A.]

- 1936 19.2058 Large game mammals. *In*: Arizona and its heritage. *University of Arizona, Bulletin*, 7(3), *General Bulletin 3*, pp. 60-70.

O'Connor, Jack

- 1936 19.4702 The Kaibab revisited. *Sports Afield*, (January):.
Mule deer hunting.

Shiras, George, 3d

- 1936 19.1490 *Hunting wild life with camera and flashlight : a record of sixty-five years' visits to the woods and waters of North America. Volume 2. Wild life of coasts, islands, and mountains.* Washington, D.C.: National Geographic Society, 2nd ed., 454 pp. [First ed., 1935.]
See Chapter 15, "Mule deer on Kaibab Plateau, Arizona—maladministration", pp. 345-356.

1937

Anonymous

- 1937 19.4122 20-day deer season in Kaibab opens Oct. 27. *Desert Magazine*, 1(1) (November): 36.
Deer hunting season, Kaibab Plateau.

Avery, Ben

- 1937 19.4808 Birth control on the Kaibab. *Arizona Wild Life* 7 (November/December): 5.
Deer.

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Nichol, A. A. [Nichol, Andrew A.]

- 1938 19.3830 Experimental feeding of deer. *University of Arizona, College of Agriculture, Agricultural Experiment Station, Technical Bulletin 75*, 39 pp.
Includes Kaibab Plateau.

O'Connor, Jack

- 1938 19.6544 Grand Canyon bucks. *Outdoor Life*, (September): 34-35, 83.
Mule deer hunting on the Kaibab Plateau.

1943

Leopold, Aldo

- 1943 19.3910 Deer irruptions. *Wisconsin Academy of Sciences, Arts, and Letters, Transactions*, 35: 351-366.
Includes Kaibab Plateau.
- 1943 19.3911 Deer irruptions. *Wisconsin Conservation Bulletin*, 8(8) (August): 3-11.
Includes Kaibab Plateau.

1946

Reid, H. L.

- 1994 19.1387 Director H. L. Reid's **1946** report to the Arizona Game Protective Association; from the files. *In: Carr, John N. (collector), It was a rough road! . . . and other Arizona Game and Fish stories*. Phoenix: Heart Track Publications, pp. 37-45.
Arizona Game and Fish Department anecdotes; ellipsis is part of title. See pp. 40-41, Kaibab deer.

1947

Leopold, Aldo; Sowls, Lyle K.; AND Spencer, David L.

- 1947 19.924 A survey of over-populated deer ranges in the United States. *Journal of Wildlife Management*, 11(2) (April): 162-177.

1948

Shantz, Homer LeRoy

- 1948 19.6353 A floresta dos saguaros [*transl.* 'The saguaro forest']. *Eu Sei Tudo* (Rio de Janeiro), 31(8)(368) (January): 43-50. [*In Portuguese.*]
Regarding the Tucson, Arizona, area and thus geographically extralimital to this bibliography, but see p. 46, remarks on having seen there a deer fawn presumed to have descended from a group of deer that had been transferred from the Kaibab Plateau.

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Vogt, William

- 1948 19.6964 *Road to survival*. New York: William Sloane Associates, Inc., 335 pp. [Includes remarks on the Kaibab deer irruption.]
Plus the following editions in reprint and in translation, 1949-1981:
- 1949 19.6965 *Road to survival*. London: Victor Gollancz, 335 pp. [Includes remarks on the Kaibab deer irruption.]
- 1950 19.6966 *La faim du monde*. (Isabelle Rollet, translator.) Paris: Hachette, 357 pp. [In French.]
- 1950 19.6967 *De laatste kans der mensheid*. Amsterdam and Antwerpen: Van Ditmar, 292 pp. [In Dutch.]
- 1952 19.6968 *Camino de supervivencia*. Buenos Aires: Editorial Sudamericana, 377 pp. [In Spanish.]
- 1955 19.6969 *Die Erde rächt sich*. Frankfurt am Main: Büchergilde Gutenberg, 360 pp. [In German.]
- 1981 19.6970 生存之路 [Sheng cun zhi lu]. (张子美 [Zhang Zimei], translator; 朱泱 [Zhu Yang], ed.) Beijing: 新华书店 [Xinhua Bookstore], 280 pp. [In Chinese.]

1949

Anonymous

- 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*.

1950

Leopold, Aldo

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- 2019 19.6443 *Research Branch annual update : Spring 2019 : (for work completed during 2018)*. [No place]: Arizona Game and Fish Department, 48 pp.
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J. J. YOUNG, from a sketch by H. B. MÖLLHAUSEN.

Lith. of Serrony, Major & Knapp, 449 Broadway, N.Y.

CAMP - COLORADO PLATEAU



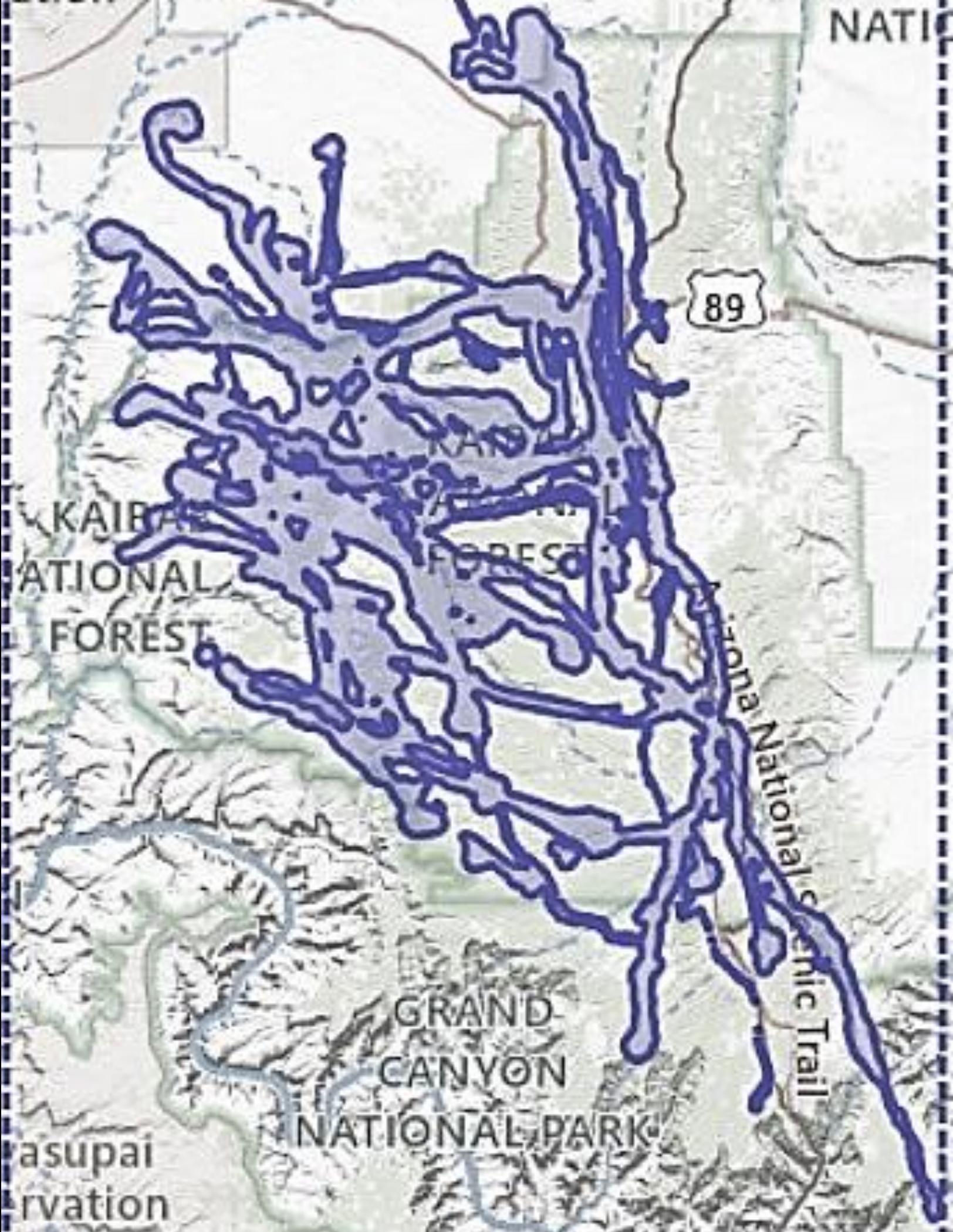
The RAVEN'S PERCH MEDIA colophon is derived from original artwork by **Balduin Möllhausen**. It recalls this bird's habit of gathering and caching objects. It is a fine detail from the lithograph delineated by J. J. Young that is "General Report Plate VII" in Joseph C. Ives' *Report Upon the Colorado River of the West, Explored in 1857 and 1858* (Washington, 1861), which depicts a wintry camp just south of the Grand Canyon. The scene was sketched and described by Möllhausen on April 10, 1858, while he was perched in a nearby tree. He noted (in translation here), "a couple of ravens [*paar Raben*] croaked morosely on the bare branches of a dried-up fir tree as they waited impatiently for our departure, so that they could scout around the abandoned camp site for fat morsels." (Möllhausen, *Reisen in die Felsengebirge Nord-Amerikas bis zum Hoch-Plateau von Neu-Mexico, unternommen als Mitglied der im Auftrage der Regierung der Vereinigten Staaten ausgesandten Colorado-Expedition*. Hermann Costenoble, Leipzig, 1861, Vol. 2, p. 83.) Möllhausen's original watercolor painting is now in the Amon Carter Museum of American Art (Fort Worth, Texas; <https://www.cartermuseum.org/collection/character-high-table-lands-1988146>).

Raven's Perch Media was created in 2018, but Möllhausen's remarks on this very scene were not discovered until the translation was made for *Möllhausen's Grand Canyon*, another Raven's Perch Media production (2022).

BACK COVER ILLUSTRATION

Migration Corridors of Mule Deer in the Kaibab North Herd in Arizona (Arizona Game and Fish Department, 2020) [detail]

In: Kauffman, M.J., H. E. Copeland, E. Cole, M. Cuzzocreo, S. Dewey, J. Fattebert, J. Gagnon, E. Gelzer, T. A. Graves, K. Hersey, R. Kaiser, J. Meacham, J. Merkle, A. Middleton, T. Nunez, B. Oates, D. Olson, L. Olson, H. Sawyer, C. Schroeder, S. Sprague, A. Steingisser, and M. Thonhoff, *Ungulate Migrations of the Western United States, Volume 1*: U.S. Geological Survey data release, <https://doi.org/10.5066/P9O2YM6I> (2020).



NATI

89

KAIBAB
NATIONAL
FOREST

NATIONAL
FOREST

GRAND
CANYON

NATIONAL PARK

Havasupai
Reservation

National Scenic Trail