

BIBLIOGRAPHY *of* BOTANY
of the
GRAND CANYON REGION

SECOND EDITION

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BIBLIOGRAPHY OF BOTANY OF THE GRAND CANYON REGION

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GRAND CANYON AND LOWER COLORADO RIVER REGIONS
IN THE UNITED STATES AND MEXICO

VOLUME 1 : INTRODUCTION AND BIBLIOGRAPHY

CATALOGERS NOTE

canon : *a standard or
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PREFACE

THE CITATIONS LISTED HERE have been extracted from Volume 1 of *THE GRAND CANON*, a far more expansive bibliography of the Grand Canyon and lower Colorado River regions of southwestern North America. (*THE GRAND CANON* is a series of publications accessible online at <https://ravensperch.org>.) This bibliography on botany complements other biologically focused bibliographies that have been prepared for the Grand Canyon region (also accessible on the Raven's Perch Media website).

These listed publications are specifically about botanical taxa or topics that address them. Items that are not organismally focused studies, or that do not specially mention botanical 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).

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; and similarly the prefix "11." that indicates it is from that part). They 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.

See <https://ravensperch.org> for everything pertaining to the complete Grand Canyon–Lower Colorado River bibliography.

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ANONYMOUS

PUBLICATION NOT DATED: DATE NOT DETERMINED NOR ESTIMATED

- NO DATE 19.1 *Life zones and ecosystems.* Grand Canyon Natural History Association, pamphlet.
- NO DATE 19.2263 Restoring the Uinkaret Mountains: Operational lessons and adaptive management practices. *Working Papers in Southwestern Ponderosa Pine Forest Restoration* (Northern Arizona University, Ecological Restoration Institute), (1), 8 pp.
- NO DATE 19.2264 Understory plant community restoration in the Uinkaret Mountains, Arizona. *Working Papers in Southwestern Ponderosa Pine Forest Restoration* (Northern Arizona University, Ecological Restoration Institute), (2), 4 pp.
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PUBLICATION NOT DATED: DATE ESTIMATED, ATTRIBUTED, OR KNOWN FROM ORIGINAL RECEIPT

- NO DATE 19.3 *Aliens invade Grand Canyon!* [U.S. National Park Service, Grand Canyon National Park], [2] pp. [Non-native plants.] [Copy received from Grand Canyon, 1995.] [Fact sheet.]
- NO DATE 19.4386 *Adventurers and Scientists for Conservation : 2011 highlights.* [No place]: Adventurers and Scientists for Conservation, 21 pp. [See pp. 10-11, "Featured Connection; Grand Canyon Diatom Sampling; Arizona". Lucy Marcus.] [2012?]
- NO DATE 19.5193 *Native plants of the Vermilion Cliffs.* [No place]: Grand Canyon Trust, Friends of the Cliffs, and U.S. Bureau of Land Management, folded brochure. [2016.]
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1894	19.3612	[Notice of description of <i>Ostrya knowltonii</i> Cov. from Grand Canyon.] <i>In</i> : News and Notes [SECTION]. <i>Botanical Gazette</i> , 19(5) (May): 212.
1895	19.4815	[Marcus E. Jones.] <i>In</i> : De Alumnis [SECTION]. <i>The Unit</i> (Iowa College), 10(4) (February 23): 39. ["A letter from Marcus E. Jones [class of 1875] informs us that he will be in Washington until May and that his book on the botany of the Grand Canyon district will be out soon thereafter." (ENTIRE NOTE)] [NOTE: No monograph on the subject by the author has been identified.]
1895	19.3208	New or little-known plants. <i>Agave Utahensis</i> . <i>Garden and Forest</i> , 8 (September 25): 384, 385.
1899	19.3231	[Forest fire on Kaibab Plateau.] <i>In</i> : Forest Fires [SECTION]. <i>The Forester</i> (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)]
1899	19.3279	[T. H. Macbride plans to work at Grand Canyon.] <i>In</i> : News [SECTION]. <i>Botanical Gazette</i> , 28(1) (July): 79. [". . . Professor T. H. Macbride will probably spend the summer in the Grand Cañon of the Colorado, studying the forest problems there for report to the United States Department of Agriculture, and incidentally picking up the fungi of the region." (ENTIRE NOTE)]
1901	19.3180	Arizona's pine forest reserve. <i>The School Journal</i> , 62(25) (June 22): 706. [Brief note.]
1903	19.3475	The Botanical Laboratory of the Carnegie Institution. <i>Scientific American Supplement</i> , 56(1444) (September 5): 23145. [Includes note of exploration in the bottom of Grand Canyon. Credited to <i>New York Times</i> .]
1904	19.4067	Accessions. <i>New York Botanical Garden, Journal</i> , 5(49) (January): 17-24. [See p. 23: "1 specimen of <i>Fraxinus</i> from the Grand Cañon of the Colorado. (Given by Miss Alice Eastwood.)" (ENTIRE NOTE)]
1907	19.4816	Third Summer Meeting; Wareham and Lytchett Heath. <i>In</i> : The Proceedings of the Dorset Natural History and Antiquarian Field Club During the Season 1906-1907 [SECTION]. <i>Dorset Natural History and Antiquarian Field Club, Proceedings</i> , 28: lxxvii-lxxviii. [See p. lxxiv: On viewing Mariposa lilies during a field trip to Lytchett Heath, the "guide told them that when she was with her husband in the Grand Canon they rode through them as one would ride through fields of buttercups." (ENTIRE NOTE)]
1909	19.6	[Untitled note.] <i>The Nautilus</i> (Philadelphia), 23(6) (November): 84. [Entire note reads: "Messrs. Ferriss and 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." [See Pilsbry and Ferriss, 1911, ITEM NO. 19.1336; and for a related article see also Ferriss, 1910, ITEM NO. 19.600. Also see historical articles relating to the Pilsbry-Ferriss trip by Spamer, 2015, ITEM NO. 2.22222; and the Ferriss-Daniels trip by Orr, 1910, ITEM NO.

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2.7280, and Spamer, 2016, ITEM NO. 2.24105 (these are in THE GRAND CANON Volume 1).]

1913	19.6450	Utah's theoretical forests. <i>Railway and Marine News</i> (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. <i>The Timberman</i> (Portland, Oregon), 15(1) (November): 51. [Includes Kaibab Plateau, Arizona.]

1914	19.3506	National Forest sale. <i>The Timberman</i> (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. <i>In: Congress and Legislation</i> [SECTION]. <i>American Lumberman</i> (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. <i>In: Inland Empire</i> [SECTION]. <i>American Lumberman</i> (Chicago), (2018) (January 17): 68. [Kaibab Plateau.]
1914	19.4578	Proposed large timber sale. <i>In: Pertinent Information</i> [SECTION]. <i>Hardwood Record</i> (Hardwood Co., Chicago), 37(7) (January 25): 60. [Kaibab Plateau.]
1914	19.4602	[Kaibab Plateau timber sale.] <i>In: Railway Information</i> [SECTION]. <i>The Railway Conductor</i> , 31(2) (February): 126.
1914	19.3507	[Kaibab Plateau timber sale.] <i>In: Salt Lake and Utah</i> [SECTION]. <i>The Timberman</i> (Portland, Oregon), 15(7) (May):.
1914	19.3563	[Botanical field trip.] <i>In: News Items</i> [SECTION]. <i>Torreya</i> , 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.] <i>In: News and Notes</i> [SECTION]. <i>Forestry Quarterly</i> , 12(2) (June): 301-302.
1914	19.3508	[Kaibab Plateau timber sale.] <i>In: Salt Lake and Utah</i> [SECTION]. <i>The Timberman</i> (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.] <i>In: News and Notes</i> [SECTION]. <i>Forestry Quarterly</i> , 12(4) (December): 647.

1915	19.4331	Flowering ashes. <i>Harvard University, Arnold Arboretum, Bulletin of Popular Information</i> , New Series, 1(6) (May 31): 23-24. [Notes range of <i>Fraxinus dipetala</i> "as far north as the rim of the Grand Cañon of the Colorado River" (ENTIRE NOTE).]
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1916	19.3586	[Alice Eastwood collected plants for five days in Grand Canyon on Hermit and Grandview Trails.] <i>In</i> : Scientific Notes and News [SECTION]. <i>Science</i> , New Series, 44 (July 21): 99.
1916	19.3224	[Alice Eastwood collected plants for five days in Grand Canyon on Hermit and Grandview Trails.] <i>In</i> : News Items [SECTION]. <i>Torreya</i> , 16(8) (August): 191.
1916	19.3585	Meeting of October 3, 1916. <i>In</i> : Proceedings of the New York Entomological Society [SECTION]. <i>New York Entomological Society, Journal</i> , 24(4) (December): 309-. [See p. 310: Minutes record a presentation by Dr. Ottolengui to the West, noting the abundance of "blue aster-like flowers at Grand Canyon". (ENTIRE NOTE)]

1922	19.4084	Undeveloped timber section of Arizona; over one billion feet contained in the 300,000-acre area. <i>The Timberman</i> (Portland, Oregon), 23(5) (March): 114, 117. [Kaibab Plateau.]
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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".]
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1931	19.56	[Early canyon-bottom flowers.] <i>Grand Canyon Nature Notes</i> , 5(4) (February): 36.
1931	19.57	[Catkins fallen from cottonwood trees at Phantom Ranch; many trees in bud.] <i>Grand Canyon Nature Notes</i> , 5(4) (February): 38.

1933	19.64	Additions to Grand Canyon herbarium. <i>Grand Canyon Nature Notes</i> , 7(11) (February): 118. ["Eighty-three new plants have recently been added to the Grand Canyon Herbarium[.]. The specimens represent collections from both rims and from the interior of the canyon. They were identified at the National Herbarium in Washington through the courtesy of Dr. Frederick Coville." (ENTIRE ITEM)]
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1938	19.4123	Grand Canyon. <i>In</i> : Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 1(5) (March): 20. ["Shrubs are budding in the Grand Canyon National Park as a result of unusually mild winter weather." (ENTIRE NOTE)]
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1983	19.6087	Update on 2,4-D appeal in Arizona Strip. <i>Canyon Echo</i> (Sierra Club, Grand Canyon Chapter), 19(6) (August): 7. [Herbicide 2,4-Dichlorophenoxyacetic acid.]
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1984	19.80	<i>Life on the canyon rim</i> . Grand Canyon Natural History Association, [8] pp. (The Rim Trail series.)
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1985	19.3619	The endangered plant program in Arizona: A summary. <i>The Plant Press</i> (Arizona Native Plant Society), 9(1) (Spring): 2-5.
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1986	19.4016	The endangered plant program in Arizona: An update. <i>The Plant Press</i> (Arizona Native Plant Society), 10(1) (Spring): [unpaginated].
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| 1990 | 19.83 | Noteworthy collections; Arizona. <i>Madroño</i> , 37(1): 60-62. |
| 1992 | 19.3784 | Havasupai sunflower: Unique resistance to major crop disease. <i>The Seedhead News</i> (Native Seeds/SEARCH, Tucson), (36) (Spring Equinox): [1]. |
| 1993 | 19.4809 | [Brief response to] Wuddyathink? On trimming tamarisks. . . <i>The News</i> (Grand Canyon River Guides), 6(3) (Late Summer): 17. [Ellipsis is part of title.] [Item signed "Russell".] |
| 1993 | 19.3624 | Highlights of Native Seeds' 1992 annual report. <i>Seedhead News</i> (Native Seeds/SEARCH, Tucson), (41/42) (Summer/Autumn): 12. [Includes notes on rust-resistant Havasupai sunflower and Havasupai tribe cultivars.] |
| 1995 | 19.6760 | A grand celebration. <i>In</i> : Notices [SECTION]. <i>National Parks</i> , 69(1/2) (January/February): 47. [National Parks and Conservation Association presents Grand Canyon National Park "with \$12,200—raised through a promotion with Matrix Essentials—to support native plant revegetation projects."] |
| 1996 | 19.126 | Revegetation Day for Association members. <i>Canyon Views</i> (Grand Canyon Association), 2(1): 8. [See also Frazier, John (1996).] |
| 1998 | 19.3622 | Plant conservation in Grand Canyon National Park. <i>The Plant Press</i> (Arizona Native Plant Society), 22(1) (Winter/Spring): 7. [Brief news note regarding removal of non-native plants and planting of native species.] |
| 1998 | 19.4103 | Grant funds endangered plant monitoring. <i>In</i> : Highlights [SECTION]. <i>Park Science</i> (U.S. National Park Service), 18(1) (July): 5. [National Fish and Wildlife Foundation's Native Plant Conservation Initiative. Sentry milk-vetch on South Rim of Grand Canyon; Hevron milk-vetch on Navajo Nation lands at Marble Canyon; newly discovered population, possibly a new variety, on the North Rim.] |
| 2002 | 19.4434 | A southwestern tour. <i>Espinas y Flores</i> (San Diego Cactus and Succulent Society), 37(3) (March): 2. [Notice of presentation to be made by Juergen Menzel, to "focus primarily on <i>Pediocactus</i> and <i>Sclerocactus</i> ", featuring "many famous cacti localities like Marble Canyon, the Grand Canyon, and Little Colorado."] |
| 2002 | 19.2254 | Old growth legacy; preserving the remaining 5 percent of Southwest old growth ponderosa pines. <i>Canyon Echo</i> (Sierra Club, Grand Canyon Chapter), 38(3) (May/June): 1-3. |
| 2004 | 19.2473 | Camelthorn warriors. <i>Boatman's Quarterly Review</i> , 17(2) (Summer): 41. |
| 2005 | 19.6142 | Art students to illustrate canyon's rare plants. <i>The Sonoran Quarterly</i> (Desert Botanical Garden, Phoenix), 59(4) (December) (Winter): 14. |
| 2006 | 19.3889 | CCSS Four Corners tour itinerary set for Apr. 20-24. <i>Colorado Cactus and Succulent Society, Chinle Chapter</i> (Glade Park, Colorado) [newsletter], (February): 3-4. [Notes in part, "Plant stops are scheduled along US 89 between Cameron and Navajo Bridge, |

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- Lees Ferry, along the road to Jacob Lake. You might find yourself detouring into Upper House Rock Valley." (ENTIRE NOTE)]
- 2006 19.4307 Arizona travel. *Senior Resource Quarterly* (CPCU Society [Society of Chartered Property and Casualty Underwriters], Malvern, Pennsylvania), 17(1) (March): 3. [Written in the first person but without by-line. Notes visit by "the Decaminadas and Kirschbaums" to Grand Canyon in spring 2005. "The Grand Canyon itself was a major surprise, despite being repeat visitors—it was *green*. One of the senior rangers told us 2005 was year 25 for him and the only time he had ever seen it looking like that—thanks to all the earlier rain, plant life had exploded." (ENTIRE NOTE)]
- 2006 19.5912 Bush Administration forced to abandon plans to log near Grand Canyon; conservationists call on Administration to protect communities at risk from wildfires instead of logging old growth forests. *Iowa Sierran* (Sierra Club, Iowa Chapter, Des Moines), 36(1) (Spring): 6.
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- 2007 19.2657 Friday, March 30th: Please join the effort to fight the onslaught of Sahara mustard! *In: Mark Your Calendars!* [SECTION]. *Boatman's Quarterly Review*, 20(1) (Spring 2006-2007) [sic]: 7.
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- 2008 19.2991 Volunteers help control invasive plants. *Canyon Sketches eMagazine* (Grand Canyon National Park), Volume 2 (April), <http://www.nps.gov/grca/naturescience/cynsk-v02.htm>
- 2008 19.2992 Tusayan Flameflower conservation; park biologists conserve rare plant near Canyon View Information Plaza. *Canyon Sketches eMagazine* (Grand Canyon National Park), Volume 5 (August), <http://www.nps.gov/grca/naturescience/cynsk-v05.htm>
- 2008 19.2911 Grand Canyon Wildlands Riparian Revegetation Project; Glen Canyon reach of the Colorado River. *In: Volunteer Opportunities* [SECTION]. *Student Connections* (Northern Arizona University, Ecological Monitoring and Assessment Program), (November): 12.
- 2008 19.4260 *Kaibab National Forest : ecological sustainability report. Version 1.01, December 19, 2008.* [No place]: U.S. Forest Service, 100 [101] pp. [Includes *Errata*, March 30, 2009, as p. [101].]
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- 2009 19.3964 Manzanita (Kane Co.) *In: Chapter News* [SECTION]. *Sego Lily* (Utah Native Plant Society), 32(3) (May): 4. [Includes notice of planned field trip to Toroweap.]
- 2009 19.3070 Biologist documents rare find in uncommon plants. *Babbitt Times Review* (Babbitt Ranches), (July): 7. [Greg Goodwin, volunteer for The Nature conservancy. *Pediocactus peeblesianus* ssp. *fickeiseniae*, *Rosa stellata* ssp. *abyssa*, *Chrysothamnus molestus*.]
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- 2010 19.5116 What makes my blue spruce blue? *Newspaper Article Archive* (Lawyer Nursery, Inc., Plains, Montana), (January): [1]-[2]. [See p. [2], note of "seed from the San Juan National Forest in Colorado and Kaibab National Forest (Kaibab Plateau) in Arizona, give the highest percentage of bluish foliage plants."]
- 2010 19.3996 Grand Canyon Spring, and springs in the wildlands. *Wild and Brief* (Grand Canyon Wildlands Council), 1(1) (May 7): [1]. [Two items: "Pakoon Springs Restoration", and "Glen Canyon Riparian Restoration" (Hidden Slough, Colorado River).]

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| 2010 | 19.3997 | Glen Canyon riparian restoration. <i>Wild and Brief</i> (Grand Canyon Wildlands Council), 1(1) (May 7): [1]. [Hidden Slough.] |
| 2012 | 19.5418 | FPC goes to the Grand Canyon: Restoring Granite Rapids camp. <i>Fred Phillips Consulting Newsletter</i> (Yuma, Arizona), (3) (August): 2. [Monument Creek.] |
| 2012 | 19.5419 | Clearing in Granite camp begins; restoration in Grand Canyon National Park. <i>Fred Phillips Consulting Newsletter</i> (Yuma, Arizona), (4) (November): 1. [Granite Rapids camp, Monument Creek.] |
| 2013 | 19.4018 | Arizona—north. <i>eNTS</i> (Native Tree Society), 3(1) (January): 23-29. [Item byline is "tsharp"; communicated by email.] |
| 2013 | 19.5086 | Re: Arizona—southern. <i>eNTS</i> (Native Tree Society), 3(1) (January): 235-236. [Item byline is "Don"; communicated by email; in reply to the item by "tsharp", pp. 199-203 (Anonymous, 2013, ITEM NO. 2.24651).] [Includes comments on working with a "hazard tree crew" at Phantom Ranch.] |
| 2013 | 19.5087 | Re: Arizona—southern. <i>eNTS</i> (Native Tree Society), 3(1) (January): 236-237. [Item byline is "Don"; communicated by email.] [Comments on vegetation communities of the Walhalla Plateau and elsewhere on Arizona Strip.] |
| 2013 | 19.4050 | Restoring native plants at the Colorado River. <i>Canyon Views</i> (Grand Canyon Association), 20(3) (Summer): 10. |
| 2013 | 19.4974 | Garden scientist maps future of rare southwestern cactus. <i>Keep Growing</i> (Chicago Botanic Garden), (Fall): 32-34. [Shannon Still studies projected habitat migration of the Siler pincushion cactus (<i>Pediocactus sileri</i>) on the Arizona Strip.] |
| 2014 | 19.4630 | Mit olvashatunk a Debreceni Pozsgástár 4. számában? <i>Hírlevél</i> (Magyar Kaktusz és Pozsgás Társaság Közhasznú Egyesület, Internetes Újságja), (63) (December): [unpaginated]. [Includes Grand Canyon and House Rock Valley.] [Hungarian Cacti and Succulents Society, Internet Newsletter.] [In Hungarian.] [Also a summary of article by Oldřich Fencľ in the December 2014 issue of <i>Debreceni Pozsgástár</i> (ITEM NO. 19.4629).] |
| 2015 | 19.4822 | <i>YOUR</i> impact at Grand Canyon. Thanks to you, GCA and Grand Canyon National Park are . . . Restoring native plants throughout the park. <i>Canyon Views</i> (Grand Canyon Association), 22(4) (November): 3. |
| 2015 | 19.4823 | Go green! Breaking ground for a new greenhouse. <i>Canyon Views</i> (Grand Canyon Association), 22(4) (November): 4. [Greenhouse for seedlings to be used in native plants revegetation efforts at Grand Canyon.] |
| 2016 | 19.5798 | Your impact at Grand Canyon; an endangered species recovers. <i>Canyon Views</i> (Grand Canyon Association), 23(4) (December): 10-11. [Sentry milk-vetch, <i>Astragalus cremnophylax</i> var. <i>cremnophylax</i> .] |
| 2017 | 19.6602 | Krótkie spojrzenie na ... Mrozooodporne Ferokaktusy, czyli kolejne pytania. <i>Kaktusy i Inne</i> (Czasopismo polskich miłośników kaktusów i sukulentów) / <i>Cacti and Others</i> (Journal of Polish cactus and succulent fanciers) (Polskie Towarzystwo Miłośników Kaktusów, Oddział Wrocławski, Wrocław), 10(2): 42. [Illustrated with photos of |

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Ferocactus cylindraceus var. *eastwoodiae* in Havasu Canyon (with a young bighorn) and *F. cylindraceus* var. *lecontei* in Grand Canyon.] [Ellipsis is part of item title, thus.] [In Polish, with bilingual serial and subtitles.]

- 2018 19.5821 North Rim Ranches; gardening for science. *In*: Postcards from the Field [SECTION]. *Colorado Plateau Advocate*, (Spring/Summer): 29. [Kane Ranch, Two Mile Ranch.]
- 2018 19.6416 The CC&SS pilgrimage to Arizona: Plants in habitat, history, scenery and a bit of geology; scenes from day 1. *Succulent Morsels* (Chinle Cactus and Succulent Society, Grand Junction, Colorado), 10(6) (June): 2-4. [Cactus prospecting in the Marble Canyon area.] [See also Mallory (2018, ITEM NO. 19.6417).]
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- 2004 19.2464 Tree thinning and prescribed burning effects on ground flora in Arizona ponderosa pine forests: A review. *Arizona-Nevada Academy of Science, Journal*, 36(2): 68-76.
- 2008 19.4547 A systematic review of wild burro grazing effects on Mojave Desert vegetation, USA. *Environmental Management*, 41(6) (June): 809-819.

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- 2008 19.3865 Changes in Gambel oak densities in southwestern ponderosa pine forests since Euro-American settlement. *U.S. Forest Service, Rocky Mountain Research Station, Research Note RMRS-RN-36*, 6 pp.
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- 1915 19.3199 The deserts and desert flora of the West. *In*: Grinnell, Joseph (ed., Subcommittee in Charge), *Nature and science on the Pacific coast : a guide-book for scientific travelers in the West. Edited under the auspices of the Pacific Coast Committee of the American Association for the Advancement of Science*. San Francisco: Paul Elder and Co., pp. 168-176. [See "Grand Cañon of the Colorado" and "Flora of the Grand Cañon", pp. 170-171.]
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- 2001 19.2077 Implementing the archaeo-environmental reconstruction technique: Rediscovering the historic ground layer of three plant communities in the greater Grand Canyon region. *In*: Egan, Dave, and Howell, Evelyn A. (eds.), *The historical ecology handbook : a restorationist's guide to reference ecosystems*. Washington, D.C., Covelo, California, and London: Island Press, pp. 413-424.
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- 2014 19.5420 Estimating groundwater recharge in semi-arid, ponderosa pine forest using a precipitation-sourced chloride mass balance technique [ABSTRACT]. *In: 2014 AIPG and AHS National Conference : program : Water and Rocks the Foundations of Life : September 13-16, 2014, Prescott, AZ.* [No place]: American Institute of Professional Geologists, and Arizona Hydrological Society, p. 33. [U.S. Forest Service, Four Forest Restoration Initiative. Includes South Rim of Grand Canyon.]
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follow in this citation. See no. [7] for an example that lists *only* type material from the Grand Canyon region; that is, none of the separately included or not-included materials listed by Baral *et al.* are from the region. See no. [20] for an example that lists, for a single new species, all three kinds of material: type, included, and not-included material, all from the Grand Canyon region.) Lists of included and not-included materials in the publication are often lengthy, with material sometimes from nation- and world-wide localities. Also note that the new taxa are credited to specific authors, not to the authors of the volume as a whole, but only the credited authors are listed in this citation even though the precise format is lengthier; for example, the first-listed species that follows is taxonomically more precise as "*Orbilina purshiae* Baral & G. Marson *in* Baral, Weber, and G. Marson". • 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): [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", "Coconino Plateau, 7.5 km ESE of Grand Canyon Village, close to South 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". [3] *Orbilina ocellata* Baral, G. Marson & E. Weber, **new species** (pp. 476-481); included material from "Canyonlands, 45 km SW of Page, 26 km SW of Marble Canyon" and "Grand Canyon, Coconino Plateau, 3 km N of Tusayan". [4] *Orbilina cucumispora* Baral & G. Marson, **new species** (pp. 494-497), holotype and isotype from "Grand Canyon, Coconino Plateau, 3 km N of Tusayan"; included material from "Canyonlands, ~35 km WNW of Page, Paria Canyon". [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". [6] *Orbilina phanosoma* Baral & [G.] Marson, **new species** (pp. 514-515); included material from "Grand Canyon, Coconino Plateau, 3 km N of Tusayan" and "3 km S of Tusayan". [7] *Orbilina multiphanosoma* Baral & G. Marson, **new species** (pp. 515-517), holotype from "Grand Canyon, Coconino Plateau, 3 km N of Tusayan". [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", and "Coconino Plateau, 7.5 km ESE of Grand Canyon Village". [10] *Orbilina navajoana* Baral & G. Marson, **new species** (pp. 571-573); included material from "Grand Canyon, Coconino Plateau, 3.5 km N of Tusayan" and "3 km N of Tusayan". [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", "Coconino Plateau, 8.5 km NNE of Tusayan, Mather Point" and "3 km N of Tusayan". [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". [15] *Orbilina ophiosoma* Baral & G. Marson, **new species** (pp. 1050-1052); included material from "Grand Canyon, Coconino Plateau, 3.5 km N of Tusayan" and "3 km S of Tusayan". [16] *Orbilina multihumulata* Baral & G. Marson, **new species** (pp. 1054-1055), holotype and isotype from "Canyonlands, 35 km WNW of Page, Paria Canyon". [17] *Orbilina obtusispora* Baral & E. Weber, new species (pp. 1061-1065); not-included material from "Grand Canyon, Coconino Plateau, 2.3 km NW of Grand Canyon Village, Hopi Point". [18] *Orbilina maeandrina* Baral & G. Marson, **new species** (pp. 1075-1078); included material from "Grand Canyon, Kaibab Plateau, 28 km ESE of

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Fredonia, 13 km NNW of Jacob Lake", "93 km SSE of Fredonia, S of North Rim", "3 km N of Kaibab Lodge", "Coconino Plateau, 15 km ESE of Grand Canyon Village, Grandview Point", and "8.5 km ESE of Grand Canyon Village, close to South Rim". [19] *Orbilina multimaendrina* 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", "Coconino Plateau, 3.5 km N of Tusayan", and "3 km N of Tusayan"; not-included material from "Grand Canyon, Kaibab Plateau, 28 km ESE of Fredonia, 13 km NNW of Jacob Lake" and "Coconino Plateau, 7.5 km ESE of Grand Canyon Village". [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", "Coconino Plateau, 15 km ESE of Grand Canyon Village, Grandview Point", and "3 km N of Tusayan". [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" and "Coconino Plateau, 3.5 km N of Tusayan". [23] *Orbilina multitrapezoidea* Baral & G. Marson, **new species** (pp. 1117-1120), holotype from "Grand Canyon, Coconino Plateau, 3 km S of Tusayan". [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". [25] *Orbilina calyptrata* Baral & G. Marson, **new species** (pp. 1187-1189); included material from "Grand Canyon, Coconino Plateau, 3.5 km N of Tusayan" and "3 km S of Tusayan". [26] *Orbilina commarosa* Baral & G. Marson, **new species** (pp. 1195-1198); not-included material from "Grand Canyon, Coconino Plateau, 15 km ESE of Grand Canyon Village, Grandview Point". [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" and "Coconino Plateau, 3 km N of Tusayan". [29] *Orbilina subovoidea* Baral, Matočec & E. Weber, **new species** (pp. 1257-1260); included material from "Grand Canyon, Kaibab Plateau, 93 km SSE of Fredonia, S of North Rim".] [For a few taxa noted from the lower Colorado River region, see Baral *et al.* (2020, ITEM NO. 11.18112).]

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2001	19.2015	Remaining hopeful. <i>Boatman's Quarterly Review</i> , 14(1) (Spring): 5. [Tamarisk removal.]
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Barker-Fricker, Sonia J.

1980	19.6433	Inside Grand Canyon. <i>National Cactus and Succulent Journal</i> (British Cactus and Succulent Society), 35(4) (December): 91-96. [Observations of cacti by an amateur botanist during a Colorado River trip in Grand Canyon, Lees Ferry to Mile 188 [Whitmore].] [NOTE: Raft shown in Figure 6 (p. 93) in "Hance Rapid" identified as a Western Rivers Expedition J-rig, but the rapid is not Hance (<i>vide</i> Richard Quataroli, February 18, 2020).]
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Barkley, T. M.

1968	19.6386	Taxonomy of <i>Senecio multilobatus</i> and its allies. <i>Brittonia</i> , 20(3) (July/September): 267-284. [See <i>Senecio multilobatus</i> Torr. & Gray ex Gray (pp. 277-279), which includes in synonymy <i>S. stygius</i> Greene, <i>S. ionophyllus</i> Greene var. <i>stygius</i> (Greene) Jepson, type from "Grand Canyon of the Colorado, May 1884, J. G. Lemmon s.n." See
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also *Senecio quercetorum* Greene (pp. 279-280), which includes the note, ". . . it has been collected occasionally near the Grand Canon, e.g., *Howell 26538*, Havasu Canyon, Grand Canyon National Park, (ARIZ, CAS)." (ENTIRE NOTE)]

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- 1944 19.2177 Alice Eastwood Semi-Centennial Publications. No. 3. Pugillus astragalorum alter. *California Academy of Sciences, Proceedings*, 25(3) (June 1): 147-170, Plate 17. [See *Astragalus zionis* (p. 149), "[a]n addition to the flora of Arizona" from "Echo Cliffs near Limestone Tanks, about 13 miles south of Navajo Bridge"; *Astragalus eremiticus* Sheld. var. *typicus*, new name, with localities including "Mokiak Pass, Mohave Co." (p. 155); *Astragalus bryantii*, new species (pp. 156-157, Plate 17, figures 10-18), type from mouth of Hermit Creek, Grand Canyon, with referred specimen from head of Phantom Canyon.]
- 1945 19.5297 Pugillus astragalorum IV: The Section *Diplocystium*. *Leaflets of Western Botany*, 4(5) (March): 65-147 [including Plates 1-4]. [See *Astragalus lentiginosus* Dougl. ex Hook., sensu *ampliatissimo* Jones, 1923, var. *diphysus* (Gray) Jones, including specimens cited from "S. of Cameron", "Cameron to Navajo Bridge", and a gathering from "S. of (Lee's) Ferry" that had been identified as *A. mokiacensis* (pp. 114-116, Plate 3, figures 5-10); *A. l.* var. *vitreus* Barneby, including specimens cited from "Kaibab [Plateau]", "W. of Fredonia", and Pipe Spring (pp. 119-121, Plate 3, figures 30-33); *A. l.* var. *palans* (Jones) Jones, including specimens cited from "Grand Canyon" and "Grand view Trail" (pp. 134-135, Plate 4, figures 23-26); *A. l.* var. *stramineus* (Rydb.) Barneby, new combination, including specimens cited from "Arizona strip" [*sic*] (pp. 122-123, Plate 3, figures 26-29); *A. l.* var. *oropedii*, new variety, type from "[North] Kaibab Trail to Roaring Springs, Grand Canyon National Park", and specimens cited from "Cliff Spring, 1 mile from Cape Royal", "North Rim of Grand Canyon", and "Jacob's Lake to Fredonia" (pp. 135-137); *A. l.* var. *mokiacensis* (Gray) Jones, including specimens cited from the type locality, Mokiak Pass, "Grand Canyon of the Colorado near Fort Mohave" [*sic*], and "Form β " from Pipe Spring and Peach Springs (pp. 137-139, Plate 4, figures 34-39).]
- 1947 19.5216 Pugillus astragalorum VIII: Notes on section *Genistoidei*. *Leaflets of Western Botany*, 5(2) (April): 25-35. [See *Astragalus convallarius* Greene var. *foliolatus* Barneby (pp. 31-32), vicinity of Peach Springs; *A. lancearius* Gray 1878 (pp. 32-34), with note regarding *A. episcopus* Wats. 1875 ("*nomen confusum*"), first described from mixed gatherings "somewhere near Kanab . . . or conceivably at some point between that village and the Grand Canyon." (p. 33)]
- 1948 19.2178 Pugillus astragalorum IX: Novelties in *Batidophaca* Rydb. *Leaflets of Western Botany*, 5(5) (February): 82-89. [Includes *Astragalus cremnophylax*, new species (pp. 83-85), from ca. 2 miles west of El Tovar, Grand Canyon.] [Sentry milkvetch.]
- 1949 19.2140 Pugillus astragalorum X: New species, varieties and combinations. *American Midland Naturalist*, 41(2) (March): 496-502.
- 1977 19.5170 Daleae imagines; an illustrated revision of *Errazurizia* Philippi, *Psorothamnus* Rydberg, *Marina* Liebmann, and *Dalea* Lucanus emend. Barneby, including all species of Leguminosae tribe Amorphaeae Borissova ever referred to *Dalea*. *New York Botanical Garden, Memoirs*, Volume 27, 892 pp. [See *Psorothamnus arborescens* (Torrey) Barneby, pp. 31-32 (notes a population "relatively extensive in the valley of Colorado River upstream from Grand Canyon in northern Arizona"); *P. a.* var. *pubescens* (Parish) Barneby, pp. 37-38, Plate 4 (pp. 600-601) (notes occurrences in House Rock Valley); *Dalea candida* Michaux ex Willdenow var. *oligophylla* (Torrey) Shinnars, pp. 248-249, Plate 56 (pp. 704-705) (notes occurrences on Kaibab Plateau).]

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² The citations for the Department of Agriculture's "Plant Inventory Books" relates to what is now the U.S. National Plant Germplasm System, information about which is a part of the Germplasm Resources Information Network (GRIN). For access to the inventory books go to <https://www.ars.usda.gov/northeast-area/beltsville-md-barc/beltsville-agricultural-research-center/national-germplasm-resources-laboratory/docs/plant-inventory-books/> (last accessed 9 January 2022). Each plant inventory book properly may be credited to different compilers; however, a bibliographical decision is made here to group all of the citations from the inventory books under the governmental source. They are listed in this bibliography under (chronologically ordered), "U.S. Department of Agriculture, Bureau of Plant Industry", "U.S. Department of Agriculture", and "U.S. Bureau of Agriculture, Agricultural Research Service". Although there are some significant hiatuses in the time of publication for inventory lists covering earlier years, the apparent significant hiatuses expressed by the citations here are due to the lack of seeds or plants credited to sources that lie within the geographical bounds of this bibliography. Plant Inventory Books 1-217 (1898-2008) have been examined.

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