

BIBLIOGRAPHY *of* ICHTHYOLOGY
of the
LOWER COLORADO RIVER

GLEN CANYON DAM TO THE RÍO COLORADO DELTA,
GRAND CANYON TRIBUTARIES,
AND LOWER VIRGIN AND MUDDY RIVERS

SECOND EDITION

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BIBLIOGRAPHY OF ICHTHYOLOGY OF THE LOWER COLORADO RIVER

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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 ichthyology complements other biologically focused bibliographies that have been prepared for just the Grand Canyon region (also accessible on the Raven's Perch Media website).

The ichthyological bibliography is restricted to the Colorado River mainstem (including impoundments) from Glen Canyon Dam to the Río Colorado delta, tributaries in the Grand Canyon, and the lower reaches of the Virgin and Muddy Rivers in the Lake Mead area. They are copied from both Part 19 of *THE GRAND CANON* (BIOLOGY AND ECOLOGY OF THE GRAND CANYON REGION) and Part 11/Section 1 (which embraces the natural history of the LOWER COLORADO RIVER from Lake Mead to the delta plus the Salton Sea, Imperial–Mexicali Valley area, and affected areas in the northernmost Gulf of California). **These listed publications are specifically about ichthyological taxa or topics that address them, and notes of ichthyological interest on fishes and fishing. Items that are not organismally focused studies, or that do not specially mention ichthyological 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 fishes in this region, consult the much more comprehensive listings in Part 11/Section 1 and Part 19 of *THE GRAND CANON*, Volume 1). Users may also wish to refer to the special bibliography on the biology, ecology, and environment of Lake Mead; and similarly the bibliography for the Salton Sea.

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.

Gray-shaded citations (with prefix 11.) indicate publications for the Colorado below Grand Canyon, and lower Virgin and Muddy Rivers.

A citation with a star  and with gray shaded Item number indicates a citation that pertains to the entire lower Colorado River and is cited in both part 11 and part 19 of the principal bibliography (*THE GRAND CANON*) but shows here only the 19. Grand Canyon–region prefix.

BIBLIOGRAPHY OF ICHTHYOLOGY OF THE LOWER COLORADO RIVER

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

BIBLIOGRAPHY OF ICHTHYOLOGY OF THE LOWER COLORADO RIVER

GLEN CANYON DAM TO THE RÍO COLORADO DELTA,
GRAND CANYON TRIBUTARIES, AND
LOWER VIRGIN AND MUDDY RIVERS

ANONYMOUS

PUBLICATION NOT DATED: DATE ESTIMATED, ATTRIBUTED, OR KNOWN FROM ORIGINAL RECEIPT

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| NO DATE | 19.3645 | <i>Natal origins of rainbow trout and survival of juvenile humpback chub.</i> U.S. Geological Survey, [2] pp. [2012.] [Fact sheet.] |
| NO DATE | 19.4405 | <i>Glen Canyon Dam Adaptive Management Program fish community monitoring.</i> U.S. Geological Survey, [2] pp. [2013?] [Fact sheet.] |

DATED PUBLICATIONS, GROUPED BY YEAR

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| 1917 | 11.13612 | Condition of fish in irrigation canals. <i>Commerce Reports</i> (U.S. Department of Commerce, Bureau of Foreign and Domestic Commerce), 1917(118) (May 21): 674. [Based on reports from the U.S. Bureau of Fisheries. Includes: "The bureau also studied conditions in the Colorado River resulting from a diversion of the river for purposes of irrigation by a public service corporation. In one locality the bed of the river is left entirely dry, causing the loss, it is said, of tons of fish." (ENTIRE NOTE)] |
| 1921 | 19.3227 | Grand Cañon National Park to attract trout anglers. <i>Popular Mechanics Magazine</i> , 35(6) (June): 849. [Bright Angel Creek.] |
| 1930 | 19.53 | Odds and ends. <i>Grand Canyon Nature Notes</i> , 4(10) (August 30): 69-71. [Lizards, birds, chipmunks, falcons, trout eggs planted in Shinumo Creek, deer range on North Rim, live specimen of "probably Grand Canyon Rattler" collected at Desert View Point.] |

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1932	19.1062	[Fish collected in lower Garden Creek identified as <i>Tiaroga cobitis</i> Girard.] <i>In</i> : Field Observations [SECTION]. <i>Grand Canyon Nature Notes</i> , 6(5) (March): 47. [See also Anonymous (1933, ITEM NO. 19.5062).]
1933	19.5062	A fish rare in collections. <i>In</i> : Miscellany [SECTION]. <i>Grand Canyon Nature Notes</i> , 7(12) (March):. [Additional specimens of <i>Tiaroga cobitis</i> gathered at the mouth of Garden Creek, Grand Canyon. Refers to earlier note, for which see 6(5): 47 (Anonymous, 1932, ITEM NO. 19.1062).]
1937	11.8389	Fishing in Mead lake [<i>sic</i>]. <i>Reclamation Era</i> , 27(12) (December): 291. [Lake Mead.]
1938	11.5488	Boulder City, Nevada. <i>In</i> : Here and There on the Desert. <i>Desert Magazine</i> , 1(4) (February): 25. [Rainbow trout and bass sport fishing in Colorado River below Hoover Dam.]
1940	11.5502	Boulder City. <i>In</i> : Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 3(5) (March): 29. ["Boulder lake will be open for fishing every day in 1940, according to George Hanson, chairman of Clark county commissioners, but certain shallow areas will be set aside as protected waters during the spring spawning season. At a meeting in February between national park service, biological survey and state officials regulations were proposed for protecting bass in restricted areas of the lake." (ENTIRE ITEM) [Lake Mead.]
1941	11.5529	Las Vegas. <i>In</i> : Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 4(6) (April): 39. ["This is the most beautiful place to put trout I ever have seen but one of the most difficult in which to construct a hatchery.' So said Fred Foster, director of the bureau of fisheries for the Western United States. He referred to the Colorado river area below Boulder dam. Foster is preparing a report on the project. It is proposed to plant young fish, thus stocking the river where conditions are said to be ideal for growth, unfavorable for spawning." (ENTIRE ITEM)]
1942	11.5540	Catfish in trouble. <i>In</i> : Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 6(1) (November): 38. [Periodic reduced flows from Hoover Dam, for turbine installation, are affecting Colorado River catfish. Also, erosion due to rapid water level fluctuations is causing erosion near Needles.]
1943	11.5541	Trout for Nevada. <i>In</i> : Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 6(4) (February): 31. ["Las Vegas—Fingerling trout to be planted in icy clear waters of the Colorado below Boulder dam have been brought here from the hatchery at Springville, Utah. Rainbow trout to be planted number 32,000." (ENTIRE ITEM)]
1945	11.5551	More trout for Colorado. <i>In</i> : Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 8(5) (March): 29. [Arizona Game and Fish Commission to plant ten thousand rainbow trout fingerlings to Colorado River below Hoover Dam.]

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1945	11.5553	Would protect game fish. <i>In:</i> Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 8(5) (March): 30. [Carp to be seined from Lake Mead and turn to fertilizer, to conserve bass and other game fish.]
1945	11.5554	Lake Mead carp for fertilizer. <i>In:</i> Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 8(7) (May): 30. [Carp to be seined from Lake Mead and turn to fertilizer, to conserve bass and other game fish.]
1946	11.2659	Davis Dam will bring new game paradise. <i>In:</i> Here and There [SECTION]. <i>Desert Magazine</i> , 9(11) (September): 36. [Fishing.]
1948	11.5578	Carp cleanup at Lake Mead. <i>In:</i> Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 11(7) (May): 35. [Agreement between Arizona and Nevada for the removal of carp, a non-game species, from Lake Mead.]
1949	11.5638	Good fishing at Lake Mead. <i>In:</i> Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 12(7) (May): 36. [Item credited to <i>Caliente Herald</i> .]
1951	11.5787	Fishermen flock to new rainbow trout water. <i>Desert Magazine</i> , 14(6) (April): 14. [Colorado River below Hoover Dam.]
1951	11.5789	Fish farms come to the desert. <i>In:</i> Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 14(7) (May): 25. [Channel catfish being raised for fresh- and frozen-fish markets at Arizona Fish Farms in south end of Colorado River Indian Reservation. Item credited to <i>Palo Verde Valley Times</i> .]
1951	11.2664	Food for Lake Havasu bass. <i>Desert Magazine</i> , 14(12) (October): 29. [California Division of Fish and Game planting of 8000 golden shiner minnows in Lake Havasu. Item credited to <i>Palo Verde Valley Times</i> .]
1953	11.5808	Claims record catfish. <i>In:</i> Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 16(1) (January): 33. ["Needles—Wando L. Tull of Barstow believes he caught the biggest channel catfish ever landed in California and the second largest in the United States when he brought in a 35-pound fish recently. It was caught in Topoc [<i>sic</i>] lagoon with hook and line.— <i>Imperial Valley Weekly</i> ." (ENTIRE ITEM)] [Topock.]
1954	11.1699	New dish for fish. <i>Desert Magazine</i> , 17(2) (February): 32. [Plan for introduction of threadfin shad to Lake Mead from Alabama.]
1954	11.5820	Rare fish caught. <i>In:</i> Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 17(5) (May): 31. [Raymond Barnes caught a 24-inch, 2½-pound bony tail minnow in the Colorado River below the Blythe Weir. Item credited to <i>Palo Verde Valley Times</i> .] [See also letter from Robert N. Doyle in July issue (ITEM NO. 11.5821).]
1954	11.5823	Try, try again. <i>In:</i> Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 17(6) (June): 31. [Regarding unsuccessful attempts to plant trout or small mouth bass in Colorado River below Davis Dam. Item credited to <i>Desert Star</i> .]

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1958	11.6637	Shrimp planted in Colorado. <i>In</i> : Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 21(11) (November): 32. [Freshwater shrimp in Lake Havasu. Item credited to <i>Palo Verde Valley Times</i> .]
1968	11.16352	Colorado River striper reproduction proven. <i>Outdoor California</i> , 29(5 [<i>sic</i> , 6]): 14.
1969	11.16353	White bass stocked in Colorado River. <i>Outdoor California</i> , 30(2): 17.
1971	11.888	Threadfin shad (<i>dorosoma petenenses</i>) [<i>sic</i>]. <i>In</i> : Niehuis, Charles C. (ed.), <i>Colorado River Adventures : special vacation guide</i> . Phoenix: Colorado River Adventures, 1971-1972 ed., p. 6.
1971	11.890	Fish Lake Mead out of Temple Bar; Temple Bar on upper Lake Mead. <i>In</i> : Niehuis, Charles C. (ed.), <i>Colorado River Adventures : special vacation guide</i> . Phoenix: Colorado River Adventures, 1971-1972 ed., p. 9.
1978	19.73	<i>Fishing and endangered fish species in Grand Canyon National Park</i> . Grand Canyon Natural History Association.
1981	19.2002	Trout saved; Reclamation [<i>sic</i>] backs off. <i>Arizona Wildlife News</i> (Arizona Wildlife Federation), 16(11): 1. [Bureau of Reclamation.]
1989	19.82	Striped bass sightings. <i>Grand Canyon River Guides</i> [newsletter], 2(2) (December): 2.
1991	19.85	Striped bass (<i>Morone Saxatilis</i>). <i>The News</i> (Grand Canyon River Guides), 4(2) (Summer): 15.
1992	19.1978	Research highlights: Lee's Ferry trout studies. <i>Arizona Wildlife Views</i> , 35(5):.
1993	★ 19.4712	Fish and the Colorado River. <i>High Country News</i> , 25(3) (February 22): 12.
1993	★ 19.4713	Fish and the Colorado River. <i>High Country News</i> , 25(5) (March 22): 8.
1993	19.87	Critical habitat designations for four Colorado River fishes. <i>Endangered Species</i> , 18(2): 7, 9, 11.
1995	19.117	Don't worry, be humpy! Second in a series of news from the Third Biennial Conference of Research on the Colorado Plateau. <i>Grand Canyon Field Notes</i> (Center for Resource Interpretation, Grand Canyon National Park), (7) (December 11): [1]. [Title refers to humpback chubs.]
1995	19.118	Lee's Ferry going barbless. <i>Wild Times</i> (Arizona Game and Fish Department), 2(6) (December 1995-January 1996): 3.

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1996	19.125	Colorado River species. <i>Endangered Species Bulletin</i> , 21(4) (July/August): 27.
1997	11.18029	Popcorn pontyok. <i>In:</i> Miről számol be a külföldi sajtó [SECTION]. <i>Halászat</i> (Budapest), 90(2) (Summer): 74. [Credited to "Fisch und Fang (1997) No 4."] [Brief item regarding visitors feeding popcorn to carp at Lake Mead.] [The original item in <i>Fisch und Fang</i> (Zeitschrift für Angler) as yet not found.] [In Hungarian.]
1998	19.5831	Fishing the dropper. <i>Streamside</i> (Dame Juliana League, Kimberton, Pennsylvania), 4(4) (Winter): 5. [Regarding the use of dropper flies. Includes notes of fishing at Lees Ferry.] [Written in the first person but unsigned.]
2001	19.4819	Fish prompt grand water on the Grand. <i>In:</i> River Runner Hot Line [SECTION]. <i>Paddler</i> , 21(2) (March/April): 54.
2001	19.2137	Going, going, gone? Grand Canyon native fish. <i>Living Rivers Currents</i> , 1(4) (December): 2.
2002	19.2169	Native fish; recovery or rhetoric? <i>Living Rivers Currents</i> , 2(1) (January): 2.
2002	19.2333	Habitat Security back in action for native fish. <i>Living Rivers Currents</i> , 2(6) (October): 1.
2002	19.2335	Dam flows fail to help Grand Canyon native fish. <i>Living Rivers Currents</i> , 2(6) (October): 2.
2003	19.6762	Grand Canyon N.P., Arizona. <i>In:</i> News in Brief [SECTION]. <i>National Parks</i> , 77(3/4) (March/April): 14. [As many as 30,000 brown and rainbow trout removed from Grand Canyon National Park in January.]
2004	11.1555	Lake Mead water low—fishing high; eighty feet down, Lake Mead is at an all-time low, but fishing is still great! <i>Nevada Outdoor Instructor</i> , (March): [1].
2004	11.1556	Training day! Spring fishing at Lake Mead/Mojave. <i>Nevada Outdoor Instructor</i> , (March): [2].
2006	19.3087	Lees Ferry. <i>On the Fly</i> (Fly Fishers Club of Orange County, California), (July): 1.
2006	19.2664	Grand Canyon fish seem to be rebounding. <i>In:</i> Of Note [SECTION]. <i>Science News</i> , 178(8): 126.
2007	19.6629	Whirling disease discovered in trout at Lees Ferry. <i>Forward Casts</i> (Desert Fly Casters, Mesa, Arizona), (July): [unpaginated] [1-page article]. [Credited to "News Media, Jun 15, 2007".]
2007	19.3080	Whirling disease discovered in trout at Lees Ferry. <i>The Flycaster</i> (Northern Arizona Flycasters, Flagstaff), (June/July): [unpaginated] [4-page article.]

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- 2008 19.3063 The Rosi-Marshall lab rides the waves (and makes a few too). *Department of Biology Newsletter* (Loyola University, Chicago), (11) (January/March): 1-2. [Humpback chub research.]
- 2008 11.4145 Fish study in the Hardy River. *In*: What's Going on in the Delta? [SECTION]. *Colorado River Delta Research Coordination Network / Delta del Río Colorado Red Coordinadora de Investigaciones, Newsletter / Gaceta Informativa*, (1) (February): 1. [Brief note.]
- 2008 11.1855 Bringing the endangered razorback sucker back from the brink of extinction. *Swimming Upstream* (U.S. Fish and Wildlife Service, San Juan River Basin Recovery Implementation Program, Upper Colorado River Endangered Fish Recovery Program, Denver), (November): 1, 3. [Includes lower Colorado River.]
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- 2009 19.3362 Grand Canyon humpback chub fare better than Upper Basin populations through recent drought. *Swimming Upstream* (U.S. Fish and Wildlife Service, Upper Colorado River Endangered Fish Recovery Program), (Winter): 3.
- 2009 19.3064 Evaluation of humpback chub translocations in Grand Canyon. *In*: Current Projects at the Kansas Unit [SECTION]. *Muddy Waters* (U.S. Geological Survey and Kansas State University, Kansas Cooperative Fish and Wildlife Research Unit), 4(1) (May): [2].
- 2009 19.5212 Endangered humpback chub population increases. *Southwest Hydrology*, 3(5) (September/October): 34-35. [Grand Canyon; referring to a U.S. Geological Survey report.]
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- 2010 19.3792 Speaker of the month; Terry Gunn; The new Lees Ferry. *Sespe Fly Fishers* (Sespe Flyfishers, Ventura, California), 35(6) (June): [2].
- 2010 19.3246 Humpback chub. *In*: Around the plateau on public lands: Rewilding the land. *Sojourns* (Peaks, Plateaus and Canyons Association), 5(2) (Summer/Fall): 46.
- 2010 19.4463 *Historical native fishes of Glen and Grand Canyons*. [No place]: Glen Canyon Dam Adaptive Management Program, [2] pp. [Fact sheet.]
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- 2011 11.2645 Arizona. *In*: Tidbits [SECTION]. *American Profile* (West Edition), (September 4-10):. [Record striped bass in Colorado River below Hoover Dam; 67 pounds, 1 ounce, caught by Jeff Smith, 1997.]
- 2011 19.3491 Video: 2010 humpback chub translocation to Shinumo Creek. *Canyon Sketches eMagazine* (Grand Canyon National Park), Volume 21 (January), <http://www.nps.gov/grca/naturescience/cynsk-v21.htm> [With brief introductory text online. Link to video on webpage.]
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and Wildlife Research Unit), 6(1) (Spring): 5. [Translocation to Shinumo Creek. Research by Jon Spurgeon and Dan Whiting.]

2013	19.4402	Endangered humpback chub translocation schedule. <i>Pinyon Press</i> (Xanterra South Rim, L.L.C., Grand Canyon), 2013(10) (May 15): 5.
2013	19.4403	Endangered humpback chub spawning successes. <i>Pinyon Press</i> (Xanterra South Rim, L.L.C., Grand Canyon), 2013(12) (June 12): 9.
2014	11.13679	Angler catches new potential world record redear sunfish in Arizona. <i>Fishing and Hunting Journal</i> (Crumpton, Maryland), 23(9) (April): 9. [Lake Havasu, 5.78 pounds, caught by Hector Brito, February 16.]
2014	19.4426	Razorback suckers released in Grand Canyon. <i>Boatman's Quarterly Review</i> , 27(2) (Summer): 8.
2015	11.7884	Rainbow trout stocking to be restored; agreement finalized. <i>Western Outdoor Times</i> , (March/April): 8.
2015	19.4801	<i>Lees Ferry recreational trout fishery management recommendations: The voice of Lees Ferry recreational anglers, guides, and businesses. August 2015.</i> [No imprint], 13 pp. [Back cover includes the imprints of Trout Unlimited, International Federation of Fly Fishers, Wildlife for Tomorrow, and Theodore Roosevelt Conservation Partnership. "Funding for this report made possible by a grant from Wildlife for Tomorrow", "All photos from Lees Ferry Anglers unless otherwise noted."]
2016	11.17382	Willow Beach NFH visit. <i>AADAP Newsletter</i> (U.S. Fish and Wildlife Service, Aquatic Animal Drug Approval Partnership Program), 12(1) (Summer): 14. [Willow Beach National Fish Hatchery.] [Cursory report.]
2016	11.12256	Willow Beach National Fish Hatchery relaunches trout program; trout back in water after program suspended for several years. <i>Hatchery International</i> (Victoria, British Columbia), 17(6) (November/December): 1, 8.
2018	19.5763	Now is a good time to plan for your Lees Ferry trip; excerpts from Lees Ferry fishing report. <i>Western Outdoor Times</i> , 13(7) (February): 10.
2018	19.5881	Champions of nature. <i>Bloom Magazine</i> (Bloomington, Indiana), (April/May): 109. [See "Vicky Meretsky", briefly noting her work (in Grand Canyon) on the California condor, humpback chub, and Kanab ambersnail.]
2018	19.5875	U.S. Fish and Wildlife Service proposes reclassification of humpback chub. <i>Western Outdoor Times</i> , 13(9) (May): 15.
2019	19.6309	How you're bringing a species back from the brink. Hikers braving trails near some Colorado River tributaries might get a rare treat—a glimpse of the humpback chub. <i>Canyon Views</i> (Grand Canyon Conservancy), 26(3) (Fall): 3-4.

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2020	11.18854	[Taxidermy fish presented to museum by Arizona Game and Fish Department.] <i>Colorado River Historical Society and Museum Newsletter</i> (Bullhead City, Arizona), 1(2) (July): 1. [Razorback sucker, bonytail chub, and humpback chub. Also notes current display of 1974 state record striper bass, and forthcoming mount of a six-foot pikeminnow.]
2021	19.6628	2021 Lee's Ferry club outing: (tentative [<i>sic</i>] pending pandemic orders). <i>On the Fly</i> (Fly Fishers Club of Orange County, California), (February): 10-12.
2021	19.6679	A look at other endangered and threatened species at Grand Canyon. (Illustrations by Mehghan Bergeron.) <i>Canyon Views</i> (Grand Canyon Conservancy), 28(2) (Fall/Winter): 14-15. [Continues the article by Escamilla (2021, ITEM NO. 19.6678) on the endangered sentry milk-vetch, but it is unclear whether this is also authored by her.] [California condor, Yuma Ridgway's rail, Mexican spotted owl, humpback chub, razorback sucker, southwestern willow flycatcher, western yellow-billed cuckoo. Illustrations are paintings.]

A

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2000	11.2059	Evaluation of a lake-wide razorback sucker sampling method on Lake Mead, Nevada and Arizona. Evaluación de un método de muestreo del matalote jorobado en todo el Lago Mead, Nevada y Arizona [ABSTRACT]. <i>Desert Fishes Council, Proceedings</i> , 21: 30-31. [In English and Spanish.]
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2001	11.1500	Razorback sucker studies on Lake Mead, Nevada and Arizona, 1999-2000 [ABSTRACT]. <i>Desert Fishes Council, Proceedings</i> , 32: 1-2. [Also in Spanish.]
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2005	11.7022	Current and potential future effects of reservoir fluctuations on the Lake Mead razorback sucker population, 1996-2002. Efectos actuales y potenciales de las fluctuaciones del embalse de Lago Mead en la población de matalote jorobado, 1996-2002 [ABSTRACT]. <i>Desert Fishes Council, Proceedings</i> , 34: 1-2. [In English and Spanish.]
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1860	11.957	Descriptions of four new species of North American Cyprinidae. <i>Academy of Natural Sciences of Philadelphia, Proceedings</i> , 12: 473-474.
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Aikens, Rory

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Citations showing Item numbers with prefix 19. indicate publications for Glen, Marble, and Grand Canyons, and Grand Canyon tributaries

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