Biology of the Rio Grande Border Region: A Bibliography

Information and Technology Report
USGS/BRD/ITR--1997-0001

U.S. Department of the Interior
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Biology of the Rio Grande Border Region: A Bibliography

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July 1997

by

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and

Diana Papoulias

USGS
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Biology of the Rio Grande Border Region: A Bibliography

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Abstract. This bibliography includes 1,913 references to the literature of the Rio Grande (Río Bravo del Norte). The specific geographic area covered extends 100 km on either side of the river from Elephant Butte Dam in New Mexico to the Gulf of Mexico. The bibliography focuses on the biological literature, divided into major subject areas, and also includes supporting literature from the physical and environmental sciences. The database is available in a searchable format on the Internet home page of the U.S. Geological Survey, Biological Resources Division, Environmental and Contaminants Research Center.

Key words: Big Bend National Park, botany, Chihuahuan Desert, ecology, Mexico, New Mexico, pollution, Texas, water quality, zoology

Introduction

The Rio Grande (Río Bravo del Norte) border area evokes images of wilderness; however, the realities of present-day population pressures are rapidly transforming this formerly wild frontier. In 1995, the National Biological Service (now the Biological Resources Division of the U.S. Geological Survey) funded an initiative along the Lower Rio Grande from Elephant Butte Reservoir to the Gulf of Mexico to address the ecosystem-level changes. As part of this effort, we have compiled this bibliography for researchers, resource managers, planners and policy makers to make accessible what is known about the biology of this region. We have concentrated on references to the biotic literature recognizing that works from the physical sciences, as well as historical treatments, may provide additional biological insight.

Several comprehensive bibliographies provided us with a starting point. References from the National Park Service's Big Bend National Park natural resources bibliography, the Texas General Land Office's Rio Grande Coastal Impact Monitoring Program bibliography, and the USGS Biological Resources Division's Biomonitoring of Environmental Status and Trends Program analysis of contaminant impacts in the lower Rio Grande were particularly helpful. The Fish and Wildlife Reference Service provided many additional references

[1] Formerly Midwest Science Center

not available through other online sources. Sections of the bibliography were then reviewed by experts in their respective fields, and their suggestions were incorporated. In addition, many individuals, agencies and organizations throughout the country were contacted for their contributions.

The bibliography is organized into 25 subject areas with author and keyword indexes. Coarse taxonomic categories of plants and animals, which predominantly include works on species biology, form the core of the collection. Historical and popular accounts in the Natural History section, as well as citations in the Ecology sections, provide important supportive information. Several smaller sections contain references that are not strictly biological in nature, but which are specific to the region and are significant to the ecosystem as a whole. We have also included two special sections. The first of these, the Overview, is intended to provide a few key references, while the Bibliographies and Directories section points the reader to more diverse and comprehensive collections of references.

This bibliography is in no way intended as a comprehensive listing of references to the biological literature of the Rio Grande border region. For the most part, we tried to include only information that was collected from, or directly pertinent to, the geographic area 100 km north and south of the Rio Grande between Elephant Butte Dam and the Gulf of Mexico. We attempted to include only those references which were complete and, as such, could be obtained through a library or some other information service. Citations generally follow the guidance in *Scientific Style and Format: the CBE Manual for Authors, Editors, and Publishers*.[2] Where possible, we have provided addresses for obtaining publications that are more difficult to access. For those who identify errors or omissions, we welcome your suggestions and contributions to this continually expanding database. It is our intention that this bibliography will be periodically updated. A current, searchable version of the bibliography database can be found on the Internet home page of the U.S. Geological Survey, Biological Resources Division, Environmental and Contaminants Research Center.

The richness of the literature reflects the diversity of the natural resources of the Rio Grande. We hope this bibliography will be of value to those who are interested in preserving and protecting the ecosystems of these borderlands.

[2] Council of Biology Editors, Style Manual Committee. 1994. Scientific style and format: the CBE manual for authors, editors, and publishers. 6th ed. New York: Cambridge University Press. 825 p.

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We are indebted to those who compiled the bibliographies from which we selected references to form the core of this bibliography: Marilyn Ostergren, Arnold Van Pelt and Kevin McDonough who worked on the Big Bend National Park Natural Resource Bibliography; Don Hockaday, Gayle Robinson and Cheryl Salaiz of the Texas Coastal Impact Monitoring Program; and Miguel Mora and Susan Wainwright of the USGS Biological Resources Division Brazos Field Research Station. We are especially grateful to the experts who took time to review the various sections: David E. Bowles, Texas Parks and Wildlife Department; Robert D. Bradley, Texas Tech University; Tim Brush, University of Texas - Pan American; Mark Flora, National Park Service, Water Resources Division; Gary P. Garrett, Texas Parks and Wildlife Department; Frank Judd, University of Texas - Pan American; Chris Onuf, USGS Biological Resources Division Texas Gulf Coast Field Research Station; A. Michael Powell, Sul Ross State University; Alfred Richardson, University of Texas at Brownsville and Texas Southmost College; and Arnold Van Pelt of Greensboro, North Carolina. Their input significantly strengthened this document.

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Agric. Res. (Washington, D.C.)	Agricultural Research
Am. Bee J.	American Bee Journal
Am. Birds	American Birds
Am. Curr.	American Currents
Am. J. Bot.	American Journal of Botany
Am. Midl. Nat.	American Midland Naturalist
Am. Mus. Novit.	American Museum Novitates
Am. Nat.	American Naturalist
Am. Zool.	American Zoologist
An. Esc. Nac. Cienc. Biol. (Mex.)	Anales de la Escuela Nacional de Ciencias Biologicas (Mexico)
Ann. Entomol. Soc. Am.	Annals of the Entomological Society of America
Ann. Mo. Bot. Gard.	Annals of the Missouri Botanical Garden
Annu. Proc. Tex. Chapter Am. Fish. Soc.	Annual Proceedings of the Texas Chapter, American Fisheries Society
Annu. rep. - West. Soc. Malacol.	Annual Report Western Society of Malacologists
Aquat. Conserv.	Aquatic Conservation
Arch. Environ. Contam. Toxicol.	Archives of Environmental Contamination and Toxicology
Arch. Hydrobiol.	Archiv fuer Hydrobiologie
Arnoldia (Boston)	Arnoldia
Audubon	Audubon
Auk	Auk
Baylor Univ. Bull.	Baylor University Bulletin
Behaviour	Behaviour
Big Bend Paisano	Big Bend Paisano
Biol. Conserv.	Biological Conservation
Bioscience	Bioscience
Birding	Birding
Bol. Of. Sanit. Panam.	Boletin de la Oficina Sanitaria Panamericana
Bot. Gaz.	Botanical Gazette
Brittonia	Brittonia
Bromeliad Soc. J.	Bromeliad Society Journal
Bryologist	Bryologist
Bull. Am. Malacol. Union Inc.	Bulletin of the American Malacological Union Incorporated
Bull. Am. Mus. Nat. Hist.	Bulletin of the American Museum of Natural History
Bull. Chic. Acad. Sci.	Bulletin of the Chicago Academy of Sciences
Bull. Ecol. Soc. Am.	Bulletin of the Ecological Society of America
Bull. Entomol. Soc. Am.	Bulletin of the Entomological Society of America
Bull. Environ. Contam. Toxicol.	Bulletin of Environmental Contamination and Toxicology
Bull. Fla. State Mus. Biol. Sci.	Bulletin of the Florida State Museum Biological Sciences
Bull. Geol. Geogr. Surv. Territ.	Bulletin of the Geological & Geographical Survey of the Territories
Bull. Mar. Sci.	Bulletin of Marine Science
Bull. Mus. Comp. Zool.	Bulletin of the Museum of Comparative Zoology
Bull. Pan Am. Health Organ.	Bulletin of the Pan American Health Organization
Bull. South. Calif. Acad. Sci.	Bulletin Southern California Academy of Sciences
Bull. Tex. Mem. Mus.	Bulletin of the Texas Memorial Museum
Bull. Tex. Ornithol. Soc.	Bulletin of the Texas Ornithological Society
Bull. Torrey Bot. Club	Bulletin of the Torrey Botanical Club
Bull. U.S. Fish Comm.	Bulletin of the United States Fish Commission
Cactus Succulent J.	Cactus and Succulent Journal

Calif. West. Int. Law J.	California Western International Law Journal
Can. Entomol.	Canadian Entomologist
Can. Field-Nat.	Canadian Field-Naturalist
Can. J. Zool.	Canadian Journal of Zoology
Cattleman	Cattleman
Chemosphere	Chemosphere
Chihuah. Desert Discov.	Chihuahuan Desert Discovery
Cicindela	Cicindela
Coenoses	Coenoses
Coleopt. Bull.	Coleopterists Bulletin
Colon. Waterbirds	Colonial Waterbirds
Comp. Biochem. Physiol.	Comparative Biochemistry and Physiology
Condor	Condor
Conserv. Biol.	Conservation Biology
Contrib. Baylor Univ. Mus.	Contributions from Baylor University Museum
Contrib. Mar. Sci.	Contributions in Marine Science
Contrib. Sci. (Los Angel.)	Contributions in Science, Natural History Museum of Los Angeles
Copeia	Copeia
Crustaceana	Crustaceana
Cuad. Inst. Invest. Cient. U.A.N.L. (Univ. Auton. de Nuevo Leon)	Cuadernos Instituto Investigaciones Cientificas, Universidad Autonoma Nuevo Leon, Mexico
Desert Plants	Desert Plants
Ecol. Monogr.	Ecological Monographs
Ecology	Ecology
Entomol. News	Entomological News
Entomol. Soc. Am. Newsl.	Entomological Society of America Newsletter
Environ. Biol. Fishes	Environmental Biology of Fishes
Environ. Entomol.	Environmental Entomology
Environ. Monit. Assess.	Environmental Monitoring and Assessment
Environ. Pollut.	Environmental Pollution
Environ. Pollut. Ser. A Ecol. Biol.	Environmental Pollution. Series A, Ecological and Biological
Environ. Prof.	Environmental Professional
Environ. Sci. & Technol.	Environmental Science & Technology
Environ. Toxicol. Chem.	Environmental Toxicology and Chemistry
Estuaries	Estuaries
Estuarine Coastal Shelf Sci.	Estuarine Coastal and Shelf Science
Fed. Regist.	Federal Register
Field Lab.	Field and Laboratory
Field Mus. Nat. Hist. Publ. Zool. Ser.	Field Museum of Natural History Publications Zoological Series
Fieldiana Zool.	Fieldiana Zoology
Fisheries	Fisheries
Folia Entomol. Mex.	Folia Entomologica Mexicana
For. Ecol. Manage.	Forest Ecology and Management
Funct. Ecol.	Functional Ecology
Geocarto Int.	Geocarto International
Geog. Rev.	Geographical Review
Geol. Soc. Am. Bull.	Geological Society of America Bulletin
Geomorphology	Geomorphology
GIS World	GIS World
Great Basin Nat.	Great Basin Naturalist
Guideb. - New Mexico Geol. Soc.	Guidebook - New Mexico Geological Society
Herpetologica	Herpetologica
Herpetol. Rev.	Herpetological Review
Hydrobiologia	Hydrobiologia
Int. Bear News	International Bear News

Int. J. Biometeorol.	International Journal of Biometeorology
Int. Ornith. Congr.	International Ornithological Congress
Int. Wildl.	International Wildlife
J. Air Waste Manage. Assoc.	Journal of the Air and Waste Management Association
J. Am. Mosq. Control Assoc.	Journal of the American Mosquito Control Association
J. Am. Trophy Hunt.	Journal of the American Trophy Hunter
J. Arachnol.	Journal of Arachnology
J. Arid Environ.	Journal of Arid Environments
J. Ariz.-Nev. Acad. Sci.	Journal of the Arizona-Nevada Academy of Science
J. Arnold Arbor. Harv. Univ.	Journal of the Arnold Arboretum Harvard University
J. Assoc. Off. Anal. Chem.	Journal of the Association of Official Analytical Chemists
J. Big Bend Stud.	Journal of Big Bend Studies
J. Biogeogr.	Journal of Biogeography
J. Bromeliad Soc.	Journal of the Bromeliad Society
J. Coastal Res.	Journal of Coastal Research
J. Econ. Entomol.	Journal of Economic Entomology
J. Field Ornithol.	Journal of Field Ornithology
J. Fish Biol.	Journal of Fish Biology
J. Geol.	Journal of Geology
J. Helminthol. Soc. Wash.	Journal of the Helminthological Society of Washington
J. Herpetol.	Journal of Herpetology
J. Hydrol.	Journal of Hydrology
J. Irrig. Drain. Eng.	Journal of Irrigation and Drainage Engineering
J. Kans. Entomol. Soc.	Journal of the Kansas Entomological Society
J. Lepid. Soc.	Journal of the Lepidopterists' Society
J. Mammal.	Journal of Mammalogy
J. Med. Entomol.	Journal of Medical Entomology
J. N. Y. Entomol. Soc.	Journal of the New York Entomological Society
J. Parasitol.	Journal of Parasitology
J. Phycol.	Journal of Phycology
J. Protozool.	Journal of Protozoology
J. Range Manage.	Journal of Range Management
J. Raptor Res.	Journal of Raptor Research
J. Rio Grande Val. Hortic. Soc.	Journal of the Rio Grande Valley Horticultural Society
J. Wildl. Dis.	Journal of Wildlife Diseases
J. Wildl. Manage.	Journal of Wildlife Management
Madrono	Madrono
Mar. Ecol. Prog. Ser.	Marine Ecology Progress Series
Mem. Simp. Pesquer. Aguas Continent.	Memorias del Simposio sobre Pesquerias en Aguas Continentales
Memorias	Memorias
Misc. pap., Texas Mem. Mus.	Miscellaneous papers - Texas Memorial Museum
Misc. Publ. Mus. Zool. Univ. Mich.	Miscellaneous Publications Museum of Zoology University of Michigan
Mycologia	Mycologia
N. Am. Fauna	North American Fauna
Nat. Conserv. News	Nature Conservancy News
Nat. Parks Conserv. Mag.	National Parks and Conservation Magazine
Nat. Parks Mag.	National Parks Magazine
Nat. Resour. J.	Natural Resources Journal
Nautilus	Nautilus
New Waves	New Waves
Northeast Gulf Sci.	Northeast Gulf Science
Occas. Pap. Mus. Zool. La. State Univ.	Occasional Papers of the Museum of Zoology Louisiana State University
Occas. Pap. Mus. Tex. Tech. Univ.	Occasional Papers, The Museum, Texas Tech University

Occas. Pap. Mus. Zool. Univ. Mich.	Occasional Papers of the Museum of Zoology University of Michigan
Oecologia	Oecologia
Ohio J. Sci.	Ohio Journal of Science
Oologist.	Oologist
Pac. Coast Avifauna	Pacific Coast Avifauna
Pan-Pac. Entomol.	Pan-Pacific Entomologist
Park Sci.	Park Science
Pearce-Sellards Ser. Tex. Mem. Mus.	Pearce-Sellards Series Texas Memorial Museum
Pedobiologia	Pedobiologia
Pestic. Monit. J.	Pesticides Monitoring Journal
Physiol. Zool.	Physiological Zoology
Phytochemistry (Oxf.)	Phytochemistry (Oxford)
Phytologia	Phytologia
Plant Syst. Evol.	Plant Systematics and Evolution
Proc. Acad. Nat. Sci. Phila.	Proceedings of the Academy of Natural Sciences of Philadelphia
Proc. Annu. Conf. Southeast Assoc. Fish Wildl. Agencies	Proceedings of the Annual Conference Southeastern Association of Fish and Wildlife Agencies
Proc. Biol. Soc. Wash.	Proceedings of the Biological Society of Washington
Proc. Calif. Acad. Sci.	Proceedings of the California Academy of Sciences
Proc. Desert Fishes Counc.	Proceedings of the Desert Fishes Council
Proc. Entomol. Soc. Wash.	Proceedings of the Entomological Society of Washington
Proc. U.S. Nat. Mus.	Proceedings of the United States National Museum
Proc. West Va. Acad. Sci.	Proceedings of the West Virginia Academy of Science
Prof. Geogr.	Professional Geographer
Psyche	Psyche
Publ. Biol. Fac. Cienc. Biol. Univ. Auton. Nuevo Leon	Publicaciones Biologicas Facultad de Ciencias Biologicas Universidad Autonoma de Nuevo Leon
Publ. Biol. Inst. Invest. Cienc. U. A. N. L. (Univ. Auton. Nuevo Leon)	Publicaciones Biologicas Instituto de Investigaciones Cientificas U. A. N. L. (Universidad Autonoma de Nuevo Leon)
Publ. Inst. Mar. Sci. Univ. Tex.	Publications of the Institute of Marine Science University of Texas
Quarternary Res.	Quaternary Research
Rangeman's J.	Rangeman's Journal
Res. Highl. Noxious Brush Weed Control Range Wildl. Manage.	Research Highlights Noxious Brush and Weed Control, Range and Wildlife Management
Restor. Manage. Notes	Restoration and Management Notes
Rhodora	Rhodora
Sabal	The Sabal
Sci. Biol. J.	Science of Biology Journal
Science	Science
SIDA Contrib. Bot.	SIDA Contributions to Botany
Smithson. Contrib. Zool.	Smithsonian Contributions to Zoology
Smithson. Misc. Collect.	Smithsonian Miscellaneous Collections
Sociobiology	Sociobiology
South. Med. J.	Southern Medical Journal
Southwest. Entomol.	Southwestern Entomologist
Southwest. Hist. Q.	Southwestern Historical Quarterly
Southwest. Nat.	Southwestern Naturalist
Sul Ross State Teach. Coll. Bull.	Sul Ross State Teachers College Bulletin
Syst. Bot.	Systematic Botany
Syst. Entomol.	Systematic Entomology
Teratology	Teratology
Tex. A. I. Univ. Stud.	Texas A&I University Studies
Tex. Arch. Paleontol. Soc. Bull.	Texas Archeological and Paleontological Society Bulletin
Tex. Fisherman	Texas Fisherman
Tex. Game Fish	Texas Game and Fish

Tex. Geogr. Mag.	Texas Geographic Magazine
Tex. Herpetol. Soc. Newsl.	Texas Herpetological Society Newsletter
Tex. Highw.	Texas Highways
Tex. J. Agric. Nat. Resour.	Texas Journal of Agriculture and Natural Resources
Tex. J. Sci.	Texas Journal of Science
Tex. Med.	Texas Medicine
Tex. Ornithol. Soc. Newsl.	Texas Ornithological Society Newsletter
Tex. Parks Wildl.	Texas Parks and Wildlife
Trab. Estac. Limnol. Patzcuaro	Trabajos de la Estacion Limnologica de Patzcuaro
Trans. Am. Entomol. Soc. (Phila.)	Transactions of the American Entomological Society (Philadelphia)
Trans. Am. Fish. Soc.	Transactions of the American Fisheries Society
Trans. Kans. Acad. Sci.	Transactions of the Kansas Academy of Science
Trans. N. Am. Wildl. Conf.	Transactions of the North American Wildlife Conference
Trans. N. Am. Wildl. Nat. Resour. Conf.	Transactions of the North American Wildlife and Natural Resources Conference
Trans. San Diego Soc. Nat. Hist.	Transactions of the San Diego Society of Natural History
Trans. Tex. Acad. Sci.	Transactions of the Texas Academy of Sciences
Tree-Ring Bull.	Tree-Ring Bulletin
Triann. Unionid Rep.	Triannual Unionid Report
Univ. Calif. Publ. Zool.	University of California Publications in Zoology
Univ. Kans. Publ. Mus. Nat. Hist.	University of Kansas Publications of the Museum of Natural History
U.S. Mex. Boundary Survey Rep.	U.S. Mexican Boundary Survey Report
U.S. Nat. Mus. Bull.	U.S. National Museum Bulletin
Vegetatio	Vegetatio
Veliger	Veliger
Water Air Soil Pollut.	Water Air and Soil Pollution
Water Environ.Technol.	Water Environment & Technology
Water Resour. Bull.	Water Resources Bulletin
Weed Sci.	Weed Science
Wetlands	Wetlands
Wilderness	Wilderness
Wildl. Soc. Bull.	Wildlife Society Bulletin
Wilson Bull.	Wilson Bulletin
Zoologica	Zoologica

Information Sources

The following list provides addresses for sources referred to within specific references in this bibliography. The Big Bend National Park collection may be accessed; however, this access may be limited by the ability of the park service staff to respond to requests.

Big Bend National Park
Division of Science and Resource Management
Box 129
Big Bend National Park, TX 79834
(915) 477-2251
Web site: http://www.nps.gov/bibe/

Fish and Wildlife Reference Service
5430 Grosvenor Lane, Suite 110
Bethesda, MD 20814
(800) 582-3421
(301) 492-6403
Fax: (301) 564-4059
Web site: http://www.fws.gov/search/fwrefser.html

Floristic Inventories of the Southwest Program
P.O. Box 13331
El Paso, TX 79913

Guadalupe Mountains National Park
HC 60 Box 400
Salt Flat, TX 79847
(915) 828-3251
Fax: (915) 828-3269
Web site: http://www.nps.gov/gumo/index.htm

Knight-Ridder Information, Inc.
Worldwide Headquarters
2440 W. El Camino Real
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(415) 254-8800
Fax: (415) 254-8123
E-mail: customer@corp.dialog.com
Web site: http://www.krinfo.com

National Park Service
Denver Service Center
Technical Information Center
DSC-MS
P.O. Box 25287
Denver, CO 80225-0287
(303) 969-2130
Fax: (303) 987-6658
Web site: http://www.nps.gov/dsc/tic/

National Park Service
Southwest Support Office
P.O. Box 728
Santa Fe, NM 87504-0728
(505) 988-6011
Web site: http://www.nps.gov/swso/osftb.htm

National Technical Information Service (NTIS)
5285 Port Royal Road
Springfield, VA 22161
(703) 487-4650
Fax: (703) 321-8547
E-mail: orders@ntis.fedworld.gov
Web site: http://www.fedworld.gov

SilverPlatter Information, Inc.
100 River Ridge Drive
Norwood, MA 02062-5043
(800) 343-0064
(617) 769-2599
Fax: (617) 769-8763
Web site: http://www.silverplatter.com/

Texas Natural Resource Conservation Commission
P.O. Box 13087
Austin, TX 78711-0387
(512) 239-0020
Fax: (512) 239-0022
Web site: http://www.tnrcc.state.tx.us

Texas Organization for Endangered Species
P.O. Box 12773
Austin, TX 78711
(409) 234-3021
Web site: http://straylight.tamu.edu/tamu/toes/toes.html

Texas Parks and Wildlife Department
4200 Smith School Road
Austin, TX 78744
(800) 792-1112
(512) 389-4362
Web site: http://www.tpwd.state.tx.us

Texas Water Resources Institute
301 Scoates Hall, MS 2118
Texas A&M University
College Station, TX 77843-2118
(409) 845-1851
Web site: http://twri.tamu.edu

University Microfilms International
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San Francisco, CA 94119-3691
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(415) 433-5500
Fax: (415) 433-0100
E-mail: orders@infostore.com
Web site: http://www.umi.com/infostore

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Denver, CO 80225
(303) 202-4210
Fax: (303) 202-4695
Web site: http://h2o.usgs.gov/

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13. ABSTRACT (*Maximum 200 words*)

This bibliography includes 1,913 references to the literature of the Rio Grande (Rio Bravo del Norte). The specific geographic area covered extends 100 km on either side of the river from Elephant Butte Dam in New Mexico to the Gulf of Mexico. The bibliography focuses on the biological literature, divided into major subject areas, and also includes supporting literature from the physical and environmental sciences. The database is available in a searchable format on the Internet home page of the U.S. Geological Survey, Biological Resources Division, Environmental and Contaminants Research Center.

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Big Bend National Park, botany, Chihuahuan Desert, ecology, Mexico, New Mexico, pollution, Texas, water quality, zoology

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U.S. Geological Survey

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