

Biology of the Rio Grande Border Region: A Bibliography

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July 1997

by

Lynne E. Johnson,

Linda J. Jacobs,

and

Diana Papoulias

DISTRIBUTION STATEMENT A

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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.

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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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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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Journals List

Abstr. Gen. Meet. Am. Soc. Microbiol.	Abstracts of the General Meeting of the American Society for Microbiology
Acaralugia (Paris)	Acaralugia (Paris)
Acta Zool. Mex. Nueva Ser.	Acta Zoologica Mexicana Nueva Serie
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
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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
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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
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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
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Environ. Pollut. Ser. A Ecol. Biol.	Environmental Pollution. Series A, Ecological and Biological
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Environ. Toxicol. Chem.	Environmental Toxicology and Chemistry
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Fed. Regist.	Federal Register
Field Lab.	Field and Laboratory
Field Mus. Nat. Hist. Publ. Zool. Ser.	Field Museum of Natural History Publications Zoological Series
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Funct. Ecol.	Functional Ecology
Geocarto Int.	Geocarto International
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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
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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
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J. Arid Environ.	Journal of Arid Environments
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J. Assoc. Off. Anal. Chem.	Journal of the Association of Official Analytical Chemists
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J. Field Ornithol.	Journal of Field Ornithology
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J. Lepid. Soc.	Journal of the Lepidopterists' Society
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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
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Res. Highl. Noxious Brush Weed Control Range Wildl. Manage.	Research Highlights Noxious Brush and Weed Control, Range and Wildlife Management
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Sabal	The Sabal
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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)
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Wilson Bull.	Wilson Bulletin
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Information Sources

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National Park Service

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SilverPlatter Information, Inc.

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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

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