

David L. Propst

Abbreviated Curriculum Vitae

Department of Biology and Museum of Southwestern Biology
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Professional Preparation

Undergraduate: Hampden-Sydney College, B.A., 1970
Undergraduate: New Mexico State University, B.S., 1974
Graduate: New Mexico State University, M.A., 1973
Graduate: Colorado State University, M.S., 1978
Graduate: Colorado State University, Ph.D., 1982

Military

1970–1972 U.S. Army, Artillery Meteorologist

Positions

1977–1978 Visiting Instructor, New Mexico State University
1982–1984 Contract Biologist, New Mexico Department of Game & Fish
1984–2011 Ichthyologist, New Mexico Department of Game & Fish
1986–present Curatorial Associate, University of New Mexico, Museum of Southwestern Biology, Division of Fishes
2003–present Instructor, USFWS National Conservation Training Center
2013–present Adjunct Professor, University of New Mexico
2014–present Adjunct Professor, Kansas State University

Publications

- Propst, D.L.**, and C.A. Carlson. 1986. The distribution and status of warmwater fishes of the Platte River drainage, Colorado. *Southwestern Naturalist* 31:149-167.
- Propst, D.L.**, K.R. Bestgen, and C.W. Painter. 1986. Distribution, status, biology, and conservation of spikedace, *Meda fulgida*, in New Mexico. U.S. Fish and Wildlife Service (Albuquerque) *Endangered Species Reports* 15:1-93.
- Bestgen, K.R., D.A. Hendrickson, D.M. Kublely, and **D.L. Propst**. 1987. Movements and growth of fishes in the Gila River drainage, Arizona and New Mexico. *Southwestern Naturalist* 32:351-356.
- Propst, D.L.**, G.L. Burton, and B.H. Pridgeon. 1987. Fishes of the Rio Grande between Elephant Butte and Caballo reservoirs, New Mexico. *Southwestern Naturalist* 32:408-411.
- Propst, D.L.**, K.R. Bestgen, and C.W. Painter. 1988. Distribution, status, biology, and conservation of the loach minnow, *Tiaroga cobitis*, in New Mexico. U.S. Fish and Wildlife Service (Albuquerque) *Endangered Species Report* 17:1-75.
- Bestgen, K.R., S.P. Platania, J.E. Brooks, and **D.L. Propst**. 1989. Dispersal and life history of *Notropis girardi* (Cypriniformes: Cyprinidae), introduced into the Pecos River, New Mexico. *American Midland Naturalist* 122:228-235.

- Propst, D.L.**, and C.A. Carlson. 1989. Distribution, status, and notes on the life history of the johnny darter, *Ethoestoma nigrum*, in Colorado. *Southwestern Naturalist* 34:250-259.
- Bestgen, K.R., and **D.L. Propst**. 1989. Distribution, status, and notes on the ecology of *Gila robusta* (Cyprinidae) in the Gila River drainage, New Mexico. *Southwestern Naturalist* 34:402-412.
- Platania, S.P., K.R. Bestgen, M.A. Moretti, **D.L. Propst**, and J.E. Brooks. 1991. Status of Colorado squawfish and razorback sucker in the San Juan River, Colorado, New Mexico, and Utah. *Southwestern Naturalist* 36:147-150.
- Propst, D.L.**, and K.R. Bestgen. 1991. Habitat and biology of the loach minnow, *Tiaroga cobitis*, in New Mexico. *Copeia* 1991:29-38.
- Propst, D.L.**, J.A. Stefferud, and P.R. Turner. 1992. Conservation and status of Gila trout, *Oncorhynchus gilae*. *Southwestern Naturalist* 37:117-125.
- Cook, J.A., K.R. Bestgen, **D.L. Propst**, and T.L. Yates. 1992. Allozymic divergence and systematics of the Rio Grande silvery minnow, *Hybognathus amarus* (Teleostei: Cyprinidae). *Copeia* 1992:23-44.
- Stefferd, J.A., **D.L. Propst**, and G.L. Burton. 1992. Use of antimycin to remove rainbow trout from White Creek, New Mexico. *Proceedings of the Desert Fishes Council* 23:55-66.
- Propst, D.L.** and J.A. Stefferud. 1994. Distribution and status of the Chihuahua chub (Teleostei: Cyprinidae: *Gila nigrescens*), with notes on its ecology and associated species. *Southwestern Naturalist* 39:224-234.
- Bestgen, K.R., and **D.L. Propst**. 1996. Redescription, geographic variation, and systematic status of Rio Grande silvery minnow, *Hybognathus amarus*, (Girard, 1856). *Copeia* 1996:41-55.
- Stefferd, J.A., and **D.L. Propst**. 1996. A lightweight, constant-flow device for dispensing liquid piscicides into streams in remote areas. *North American Journal of Fisheries Management* 16:228-230.
- Stefferd, J.A., and **D.L. Propst**. 1997. Fish fauna of the Bavícora Basin, Chihuahua, México. *Southwestern Naturalist* 41:446-450.
- Gido, K.B., **D.L. Propst**, and M.C. Molles, Jr. 1997. Spatial and temporal variation of fish communities in secondary channels of the San Juan River, New Mexico and Utah. *Environmental Biology of Fishes* 49:417-434.
- Propst, D.L.** and J.A. Stefferud. 1997. Population dynamics of Gila trout in the Gila River drainage of the southwestern United States. *Journal of Fish Biology* 51:1137-1154.
- Riddle, B.R., **D.L. Propst**, and T.L. Yates. 1998. Mitochondrial DNA variation in Gila trout, *Oncorhynchus gilae*: Implications for management of an endangered species. *Copeia* 1998:31-39.
- Gido, K.B., and **D.L. Propst**. 1999. Habitat use and association of native and nonnative fishes in the San Juan River, New Mexico and Utah. *Copeia* 1999: 321-332.
- Propst, D.L.** 1999. Threatened and endangered fishes of New Mexico. New Mexico Department of Game and Fish, *Technical Report No. 1*.
- Propst, D.L.**, A.L. Hobbes, and T.L. Stroh. 2001. Distribution and notes on the biology of Zuni bluehead sucker, *Catostomus discobolus yarrowi*, in New Mexico. *Southwestern Naturalist* 46:158-170.
- Brown, D.K., A.A. Echelle, **D.L. Propst**, J.E. Brooks, and W.L. Fisher. 2001. Catastrophic wildfire and number of populations as factors influencing risk of extinction for Gila trout (*Oncorhynchus gilae*). *Western North American Naturalist* 61:139-148.

- Bailey, J.B., **D.L. Propst**, C.W. Painter, C.G. Schmitt, and S.O. Williams III. 2001. Status of native wildlife in the Middle Rio Grande Valley of New Mexico. *New Mexico Journal of Science* 41:30-49.
- Propst, D.L.**, and K.B. Gido. 2004. Responses of native and nonnative fishes to natural flow regime mimicry in the San Juan River. *Transactions of the American Fisheries Society* 133:922-931.
- Finlayson, R., W. Sommer, D. Duffield, **D. Propst**, C. Mellison, T. Pettengill, H. Sexauer, T. Nesler, S. Gurtin, J. Elliot, F. Partridge, and D. Skaar. 2005. Native inland trout restoration on National Forests in the western United States: Time for Improvement? *Fisheries* 30:10-19.
- Gido, K.B., N.R. Franssen, and **D.L. Propst**. 2006. Spatial variation in $\delta^{15}\text{N}$ and $\delta^{13}\text{C}$ isotopes in the San Juan River, New Mexico and Utah: implications for the conservation of native fishes. *Environmental Biology of Fishes* 75:197-207.
- Franssen, N.R., K.B. Gido, and **D.L. Propst**. 2007. Flow regime affects availability of native and non-native prey of an endangered predator. *Biological Conservation* 138:330-340.
- Moore, S., M. Kulp. B. Rosenlund, J. Brooks, and **D. Propst**. 2008. A field manual for the use of Antimycin A for restoration of native fish populations. U.S. Park Service *Natural Resource Report* NPS/NRPC/NRR-2008/033, Fort Collins, CO.
- Propst, D.L.**, K.B. Gido, and J.A. Stefferud. 2008. Natural flow regimes, nonnative fishes, and native fish persistence in arid-land river systems. *Ecological Applications* 18:1236-1252.
- Pilger, T.J., K.B. Gido, and **D.L. Propst**. 2009. Diet and trophic niche overlap of native and nonnative fishes in the Gila River, USA: Implications for native fish conservation. *Ecology of Freshwater Fish* 19:300-321.
- Sullivan, M.G., **D.L. Propst**, and W.R. Gould. 2009. *Fish of the Rockies*. Lone Pine Publishing, Edmonton, AL.
- Hoagstrom, C.W., N.D. Zymonas, S.R. Davenport, **D.L. Propst**, and J.E. Brooks. 2009. Rapid species replacements between fishes of North American plains: a case history from the Pecos River. *Aquatic Invasions* 5:141-153.
- Stefferd, J.A., K.B. Gido, & **D.L. Propst**. 2011. Spatially variable response of native fish assemblages to discharge, predators and habitat characteristics in an arid-land river. *Freshwater Biology* 56:1403-1416.
- Gido, K.B., and **D.L. Propst**. 2012. Long-term dynamics of native and nonnative fishes in the San Juan River, New Mexico and Utah under a partially managed flow regime. *Transactions of the American Fisheries Society* 141:645-659.
- Osborne, M.E., A. Sharp, J. Monzingo, **D.L. Propst**, and T. Turner. 2012. Genetic analysis suggests high conservation value of peripheral populations of Chihuahua chub (*Gila nigrescens*). *Conservation Genetics* doi: 10.1007/s10592-012-0234-6.
- Gido, K.B., **D.L. Propst**, J.D. Olden, and K.R. Bestgen. 2013. Multi-decadal responses of native and introduced fishes to natural and altered flows in streams of the American Southwest. *Canadian Journal of Fisheries and Aquatic Sciences* 70:554-564.
- Whitney, J.E., K.B. Gido, and **D.L. Propst**. 2014. Factors associated with the success of native and nonnative species in an unfragmented arid-land riverscape. *Canadian Journal of Fisheries and Aquatic Sciences* dx.doi.org/10.1139/cjfas-2014-0153.
- Franssen, N.R., E.I. Gilbert, and **D.L. Propst**. 2014. Effects of longitudinal and lateral stream channel complexity on native and non-native fishes in an invaded desert stream. *Freshwater Biology* doi:10.1111/fwb.12464.

- Franssen, N.R., S.L. Durst, K.B. Gido, D.W. Ryden, V. Lamarra, and **D.L. Propst**. 2014. Long-term dynamics of large-bodied fishes assessed from spatially intensive monitoring of a managed desert stream. *River Research and Applications* doi:10.1002/rra.2855.
- Propst, D.L.**, K.B. Gido, J.E. Whitney, E.I. Gilbert, T.J. Pilger, A.M. Monié, Y.M. Paroz, J.M. Wick, J.A. Monzingo, and D.M. Myers. 2015. Efficacy of mechanically removing nonnative predators from a desert stream. *River Research and Applications* 31:692-703; doi:10.1002/rra.2768.
- Pilger, T.J., K.B. Gido, **D.L. Propst**, J.E. Whitney, and T.F. Turner. 2015. Comparative conservation genetics of protected endemic fishes in an arid-land riverscape. *Conservation Genetics* doi:10.1007/s10592-015-0707-3.
- Whitney, J.E., K.B. Gido, T.J. Pilger, **D.L. Propst**, and T.F. Turner. 2015. Meta-population analysis indicates native and non-native fishes respond differently to effects of wildfire on desert streams. *Ecology of Freshwater Fish* doi:10.1111/eff.12217.
- Whitney, J.E., K.B. Gido, T.J. Pilger, **D.L. Propst**, and T.F. Turner. 2015. Consecutive wildfires affect stream biota in cold- and warmwater dryland river networks. *Freshwater Science* doi:10.1086/683391.
- Pilger, T.J., K.B. Gido, **D.L. Propst**, J.E. Whitney, and T.F. Turner. 2015. Comparative conservation genetics of protected endemic fishes in an arid-land riverscape. *Conservation Genetics* doi: 10.1007/s10592-015-0707-3.
- Pilger, T.J., K.B. Gido, **D.L. Propst**, J.E. Whitney, and T.F. Turner. 2017. River network architecture, genetic effective size and distributional patterns predict differences in genetic structure across species in a dryland stream fish community. *Molecular Ecology* doi:10.1111/mwec.14079.
- Whitney, J.E., K.B. Gido, S.C. Hedden, G.L. Macpherson, T.J. Pilger, **D.L. Propst**, and T.F. Turner. 2017. Identifying the source population of fish re-colonizing an arid-land stream following wildfire-induced extirpation using otolith microchemistry. *Hydrobiologia* doi: 10.1007/s10750-017-3143-1.

Professional Service Activities

President: Arizona/New Mexico Chapter American Fisheries Society (1989-1990).

President: Desert Fishes Council (1999-2001).

Professional Service to state, federal, and non-governmental conservation agencies: Leader, Gila Trout & Chihuahua Chub Recovery Team (1984–present); Member, Desert Fishes Recovery Team (1987-2002); Member Rio Grande Fishes Recovery Team (1984–2010); Member, Rio Grande Silvery Minnow Recovery Team (1995–present); Member, Biology Committee, San Juan River Basin Recovery Implementation Program (1991–2010); Participant, World Wildlife Fund Biological Assessment Workshop of the Chihuahuan Desert (1997); Member, Technical Committee, Central Arizona Project Biological Opinion Implementation Program (1999–2010); Member, Science Work Group, Middle Rio Grande Endangered Species Act Collaborative Program (2000–2010); Participant, Truchas Mexicanas (2004–present); Member, Gila Technical Subcommittee, Gila-San Francisco Coordinating Committee (2006-2007); and Participant, Western Native Trout Initiative (2007–2008).

Associate Editor (Fishes): *The Southwestern Naturalist* (2001–2003).

Peer Reviewer: *Aquatic Conservatio: Marine and Freshwater Ecosystems, American Midland Naturalist, Conservation Biology, Copeia, Ecology of Freshwater Fish, Environmental Biology of Fishes, Fisheries, Freshwater Biology, Journal of Environmental Management, Marine and Freshwater Research, North American Journal of Fisheries Management, River Research and Applications, River Systems, Reviews in Fisheries and Fish Biology, The Southwestern Naturalist, Transactions of the American Fisheries Society, Western North American Naturalist.*

Contributor: R.A. Abell et al. (editors). 2000. *Freshwater Ecoregions of North America: A Conservation Assessment*. Island Press, Washington, D.C.

Invited Speaker: Conservation of Native Fishes; Species to Ecosystems (American Fisheries Society, 1993); President's Council on Sustainable Resource Use (1994); Ichthyofauna of the Rio Grande Ecosystem: Historical Changes and Challenges for Conservation (Western Division of American Fisheries Society, 1994); Ecology and Management of North American Prairie Streams (American Fisheries Society, 2005); National and International Challenges and Lessons Learned on Fish Management Chemicals (American Fisheries Society, 2005); Natural History of the Gila: A Southwestern NM Symposium (2006); and Wildfire Impacts on Fishes, Aquatic Organisms, and Their Habitats (Third International Fire Ecology and Management Congress, 2006). Lessons from Long-Term Monitoring (2016 Joint Meeting Ichthyologists and Herpetologists).

Public Outreach: Presentations to New Mexico Audubon Society, Arizona Federation FlyFishermen, New Mexico Trout, Mesilla Valley Fishermen, and New Mexico Wildlife Federation.

Awards

- The Nature Conservancy 'Aldo Leopold Conservation Award' (1985)
 - The Southwestern Association of Naturalists 'George Miksch Sutton Award in Conservation Research' (1992)
 - U.S. Forest Service 'Rise to the Future Award' (2003)
 - Western Association of Fish and Wildlife Agencies 'Professional of the Year' (2007)
 - U.S. Environmental Protection Agency 'Bronze Medal for Commendable Service' (2008)
 - Desert Fishes Council 'W.L. Minckley Conservation Award' (2010)
 - U.S. Fish and Wildlife Service 'Endangered Species Champion' (2012)
 - Gila Natural History Symposium (V) 'Lifetime Achievement Award' (2014)
 - Trout Unlimited 'Trout Conservation Award: Professional' (2014)
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