



# WHO WE ARE

Many complex natural resources challenges — from land fragmentation and threatened and endangered species to strained and insufficient water resources — exist today in Texas and throughout the nation. At the Texas A&M Institute of Renewable Natural Resources (IRNR), our work is about solving these challenges through discovery, engagement, innovation and land stewardship.

We use interdisciplinary approaches and collaboration with multiple partners to develop durable and innovative solutions. We partner with university departments, research and extension centers and various organizations, bringing together research scientists, students, county agents, program specialists, agency partners and others to holistically address these natural resource issues.

Established in 1978 as a component of the Agriculture Program at Texas A&M University, the Institute's purpose was to coordinate, strengthen and integrate multidisciplinary approaches to renewable natural resource issues by providing a forum for quality research, teaching and extension programs.

We are a unit of Texas A&M AgriLife Research, the Texas A&M AgriLife Extension Service and the College of Agriculture and Life Sciences at Texas A&M University. We serve as the host institution for the Gulf Coast Cooperative Ecosystem Studies Unit, a partnership among 11 federal agencies and 36 universities and organizations that facilitates collaborative research, education and technical assistance among federal and state agencies, universities and non-governmental organizations.

# WHAT WE DO

Our work centers on 6 program focus areas:

- Land Trends and Conservation Design
- · Wildlife Conservation and Mitigation
- · Military Land Sustainability
- · Sustainable Energy Development
- · Watershed Resiliency
- · Private Land Stewardship

## LOCATIONS

To assist in our regional partnerships and projects, our scientists and staff are located at multiple offices: College Station, San Antonio, Gatesville and Washington, D.C.

# 2 INSTITUTES, 1 MISSION

Since land and water activities are intrinsically linked, IRNR collaborates with the Texas Water Resources Institute on a wide range of natural resource and water issues. The 2 Institutes share resources and the expertise of more than 60 full-time professional and support staff. Working together, we accomplish what a single principal investigator or department could not normally do alone.



### LAND TRENDS AND CONSERVATION DESIGN

Texas native landscapes are increasingly threatened by suburbanization, rural development and land fragmentation driven by rapid population growth. These rural-to-urban land changes bring challenges, and effective conservation will require innovative solutions to sustaining private rural working lands. Our *Land Trends and Conservation Design Program* meets these challenges with applied research and outreach efforts. Our land conservation work helps enable communities to feed more people using less land, provide clean and safe water for all uses, conserve and improve wildlife habitat, and maintain viable rural economies.

### WILDLIFE CONSERVATION AND MITIGATION

Our *Wildlife Conservation and Mitigation Program* conducts problem-driven research addressing today's wildlife and habitat management issues. We promote stewardship of game, nongame, endangered and threatened species populations, and their habitats, by translating sound science into application and outreach. Texas is home to 75% of all wildlife species in the United States, including 90 species listed as threatened or endangered under the federal Endangered Species Act. We provide the science-based knowledge useful to species' recovery, and the education and resources stakeholders need to manage these wildlife populations sustainably.

### MILITARY LAND SUSTAINABILITY

Our *Military Land Sustainability Program* supports U.S. Department of Defense testing and training activities through our expertise in land management and regional planning, research and policy innovations, and education and outreach. Preparing this country's military requires expansive air, land and sea space, but many military installations now face encroachment from competing land uses. We are developing programs to conserve these areas. Our approach combines conservation with working lands and national defense interests, supporting the twin imperatives of military readiness and land stewardship.

### SUSTAINABLE ENERGY DEVELOPMENT

Our *Sustainable Energy Development Program* supports safe, efficient and environmentally responsible energy production. If air, water and land impacts associated with oil and natural gas drilling and fracturing are not properly managed, there can be short- and long-term community issues and impacts to livestock, ranch land and cropland. Our team of researchers, educators and specialists focuses on the integration of innovative research and technologies that reduce the footprint of oil and gas activities and brings together regulators, industry, academia, environmental organizations and the public.

### WATERSHED RESILIENCY

Our *Watershed Resiliency Program* applies sound research and outreach to achieve sustainable and secure water resources for humans and wildlife. Focusing on aquatic species and ecosystems, we provide watershed restoration, land management practices and policy innovations. Our work promotes the proper management of land and water resources for adequate spring flows, streamflows and aquifer recharge, securing water for agriculture, municipalities, recreation and habitats.

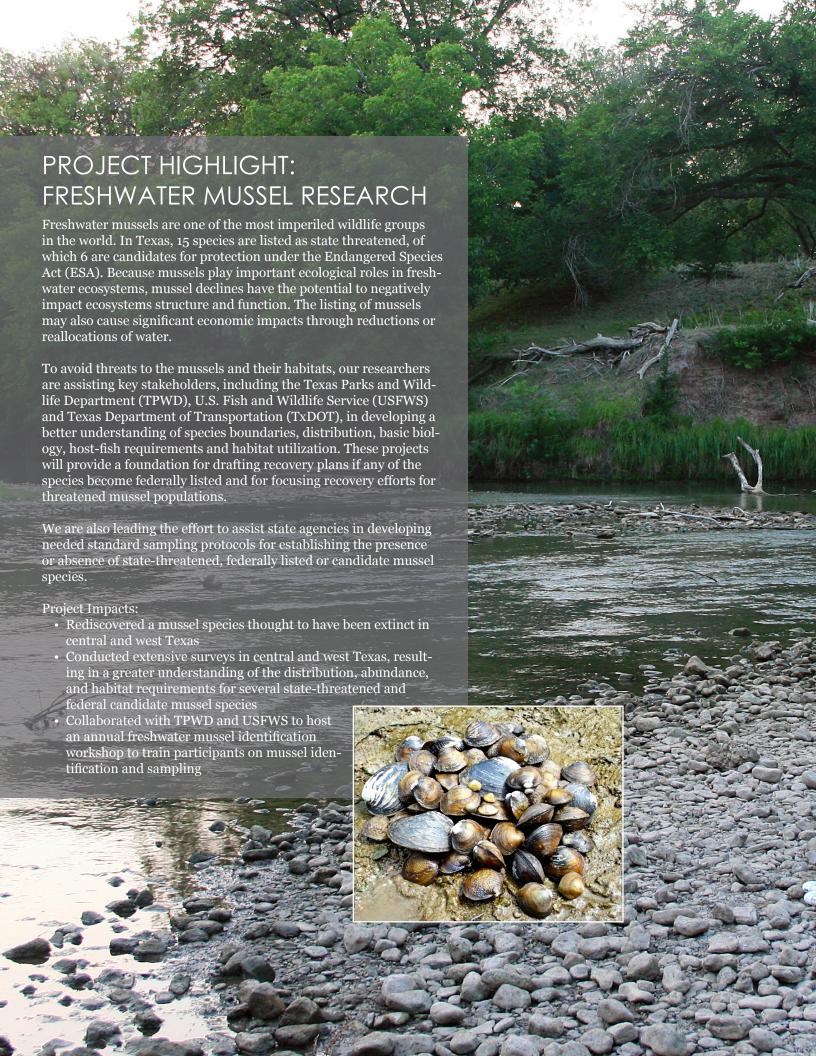
### PRIVATE LAND STEWARDSHIP

Our *Private Land Stewardship Program* fosters stewardship of private lands and their associated public benefits through research and collaborative conservation. Our experience in working with private landowners and private landowner groups offers unique engagement opportunities for building relationships based on trust and science-based, pragmatic solutions to emerging natural resource challenges. The Institute's success is a direct reflection of the reciprocal relationships and networks it has formed with private landowners over the years and of its unique ability to integrate research, extension and policy into meaningful, sensible natural resource solutions.





TEXASLANDTRENDS.ORG



# **JUMB**

### **FUNDING AGENCIES**

City of San Antonio, East Wildlife Foundation, GSI Environmental, Meadows Foundation, National Parks Service, Natural Resources Conservation Service, North Texas Municipal Water District, Pioneer Natural Resources, Texas A&M AgriLife Extension Service, Texas A&M University System, Texas Commission on Environmental Quality, Texas Comptroller of Public Accounts, Texas Parks and Wildlife Department, Texas Water Foundation, University of Kentucky Research Foundation, University of Texas University Lands, U.S. Department of Defense - Corp of Army Engineers, U.S. Department of Energy, U.S. Fish and Wildlife Service

9,519

Research and Extension contact hours

4,371

Attendees at 96 presentations given by staff at 90 events

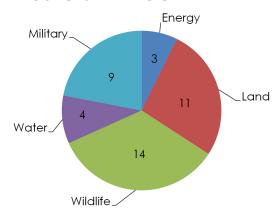
2,414

Conservation Matters subscribers

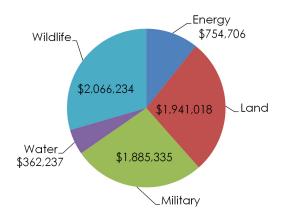
### **GRANTS AND CONTRACTS**

	Funding	Number of grants
Research	\$4,242,152	28
Extension	\$2,767,378	13
Total	\$7,009,530	41

### PROJECTS BY PROGRAM AREA



### FUNDING BY PROGRAM AREA



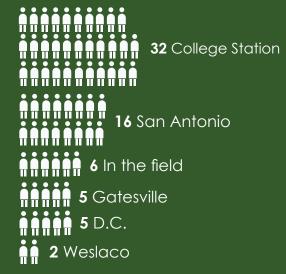
29 PUBLICATIONS

**581** TWITTER FOLLOWERS

17 NEWS RELEASES

38 STUDENTS SUPPORTED

**66** IRNR AND TWRI STAFF MEMBERS







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