

# Tribal Colleges and Universities Water Program Priorities, Progress, and Impacts

Priorities	Activities/Needs to Address	Short term impacts	Long term desired impacts
Water quality and quantity jurisdiction	Curriculum implementation, case studies, increase TCU lab capacities, regional symposium workshops, water monitoring programs	TCU lab testing capacity supports research, education, and extension in tribal communities, tribes seek treatment as states and quantify water rights	Clean Water Act implemented on all tribal lands, tribal communities secure adequate water supplies for growing populations, enhanced environmental health
Drinking water quality and quantity	Protect in-stream flow for people, community wide drinking water assessment and mitigation, eliminate use of polluted drinking water sources, lab certification and monitoring programs	Testing capacity supports research, education and extension in tribal communities, tribes seek treatment as states, tribes seek development of safe drinking water programs	Safe Drinking Water Act implemented on all tribal lands, tribal communities secure drinking water for growing populations, and human health protected
Water Science Education	Build two and four year programs at tribal colleges and collaborations with state universities	Tribal Colleges collaborate at local, state, and regional levels enhancing undergraduate and graduate education	Native Americans solving serious water issues in tribal communities
Invasive species	Aquatic invasive plant and animal research, education, and extension projects	Invasive species identified, management practices developed, and mitigations initiated	Tribes managing invasive species protecting water resources
Climate change	TCU climate change symposium, partnerships developed, local research, education, and extension education, and tribal leaders engaged in action planning	Awareness of impacts of climate change on tribal water resources by tribal leaders and communities	Climate change impacts mitigated locally through management, planning, and community cooperation
Youth involvement	Service learning opportunities in water science, tribal teacher education, youth exchanges	Increase tribal youth in college curriculum, future tribal leaders knowledgeable of water issues	Tribal leaders apply water science addressing community water issues
Protection of tribal water cultural values	Indigenous ecological knowledge applied in water science education	Community becomes aware of cultural values, priorities, and rights related to water	Holistic indigenous ecologic knowledge principles help solve human-water-ecological process interactions