

AGENCY PRESENCE IN THE NORTH BOSQUE RIVER WATERSHED

Agency/Entity: College of Agriculture and Human Sciences (COAHS), Tarleton State University

Web Address: <http://www.tarleton.edu/~ag/index.htm>

Brief Introduction: The College of Agriculture and Human Sciences at Tarleton State University has an enrollment of approximately 1300 students. Faculty members of the College engage in teaching and research in areas including agricultural economics, soil science, dairy waste management, and animal nutrition.

Agency/Entity Capabilities:

- Trace element analysis via inductively coupled plasma atomic emission spectroscopy and/or atomic adsorption
- Wet chemistry laboratory for determination of dry matter, phosphorus, calcium, nitrogen and various other components of feed and animal waste
- Researchers with expertise in experimental design and data analysis
- Researchers with expertise in nutritional physiology of ruminant animals
- Network of local contacts to facilitate sample collection

Current Involvement in North Bosque River Watershed Projects:

- [Field truthing of USDA SSURGO Soils Data in Erath County](#)
- [Compost Analysis Laboratory](#)
- [Uptake of Phosphorous by Corn Silage](#)
- [Amino Acid Requirements of Growing Milk-Fed Calves](#) (Reducing animal nutrient excretion through dietary manipulation)
- [Dairy Manure Compost P Recycling through Consecutive Corn Silage Crops](#)
- [Summer Legume / Crabgrass Mixtures for Dairy Manure Compost Sequestration](#)
- [Summer Legume / Switchgrass Mixtures for Dairy Manure Compost Sequestration](#)
- [Year-round Pastures Based on Switchgrass Over-seeded with Annual Winter Legumes for Dairy Manure Compost Sequestration](#)
- [Bioremediation and Runoff Containment of Dairy Manure Phosphorus Saturated Soils within the Bosque River Drainage](#)

COAHS is also active in collaborative grant writing with various agencies related to phosphorous remediation