

AGENCY PRESENCE IN THE NORTH BOSQUE RIVER WATERSHED

Agency/Entity: Texas Agricultural Research & Extension Center, Stephenville – Texas Agricultural Experiment Station (TAES) and Texas Cooperative Extension (TCE)

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Brief Introduction: TAES & TCE efforts have focused on environmentally friendly uses of dairy manure and its composts in north-central Texas. Soils in this region are extremely low in Phosphorus (P) and copious quantities of industrial fertilizer P are applied to lawns, pastures and crop fields every year. By fomenting the greater use of dairy manure compost, TAES hopes to:

1. Improve agricultural output
2. Provide sustainable uses for dairy manure
3. Protect against environmental threats from fertilizer and feed P imports into the region

Agency/Entity Capabilities:

- Researchers trained to undertake both agricultural and environmental trials
- Laboratories, greenhouses and field plots with research capabilities
- Projects in entomology, dairy nutrition, soil fertility, horticulture, and forage ecology
- Grant leveraging capabilities
- Demonstrated producer confidence, capable of bridging dairy and environmental concerns

Current Involvement in North Bosque River Watershed Projects:

- [Dairy Manure Compost P & N Recycling through a Coastal Hay Production System](#)
- [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](#)
- [Dairy Compost Nutrient Release as it Relates to Application Date](#)
- [Dairy Compost for Recreational Turf](#)
- [Bioremediation and Runoff Containment of Dairy Manure-P Saturated Soils within the Bosque River Drainage](#)
- [Insecticide Baits for Suppressing House Flies on Dairies](#)
- [Parasitoids Common to Dairies in Central Texas](#)
- [Using the Black Soldier Fly to Reduce Dairy Manure](#)
- [Biological Control of *Giardia* cysts and *Cryptosporidium* oocysts](#)
- [Dragonfly Nymphs as Indicators of Water Quality in Texas Ponds](#)
- [Dragonfly Nymphs as Predators of Shrimp Post-Larvae in Inland Mariculture Systems](#)
- [Field Truthing of USDA SSURGO Soils Data in Erath County](#)
- [Compost Analysis Laboratory](#)
- [Uptake of Phosphorus by Corn Silage](#)
- [Amino Acid Requirements of Growing Milk-Fed Calves](#)