Grassland Studies

The mission of the GSWRL grassland research program is to develop innovative solutions for optimized grassland management. Our goal is to provide producers novel tools and technologies for improving grassland production, function, and soil health.

Texas is proud to be cattle country. We support livestock producers by studying how adaptive grazing strategies can increase ecosystem resilience, prevent soil nutrient loss, and increase carbon holding capacity.

Global network research studies are being used to identify the mechanisms of grassland ecosystem processing in response to management. Key studies are highlighting the effects of drought, nutrient addition, and disturbance inputs.

Modern tools and technology are being developed to help guide grassland management into the future, including airborne and ground-based robotic sensing. Forecasts of weather, seasonal climate, and plant production are also being produced to improve management planning for determining appropriate stocking rates, restoration planning, and fertilizer management.

Current Grassland Research:
- Adaptive Grazing Management
- Grazed Cover Crops
- Manureshed Management
- Global Network Research
- Biomass Production
- Drought Studies
- Drone-Based Production
- Forecasting Applications

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Grassland, Soil and Water Research Laboratory (GSWRL)

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