

Can we use prairie to improve Midwestern agricultural landscapes?

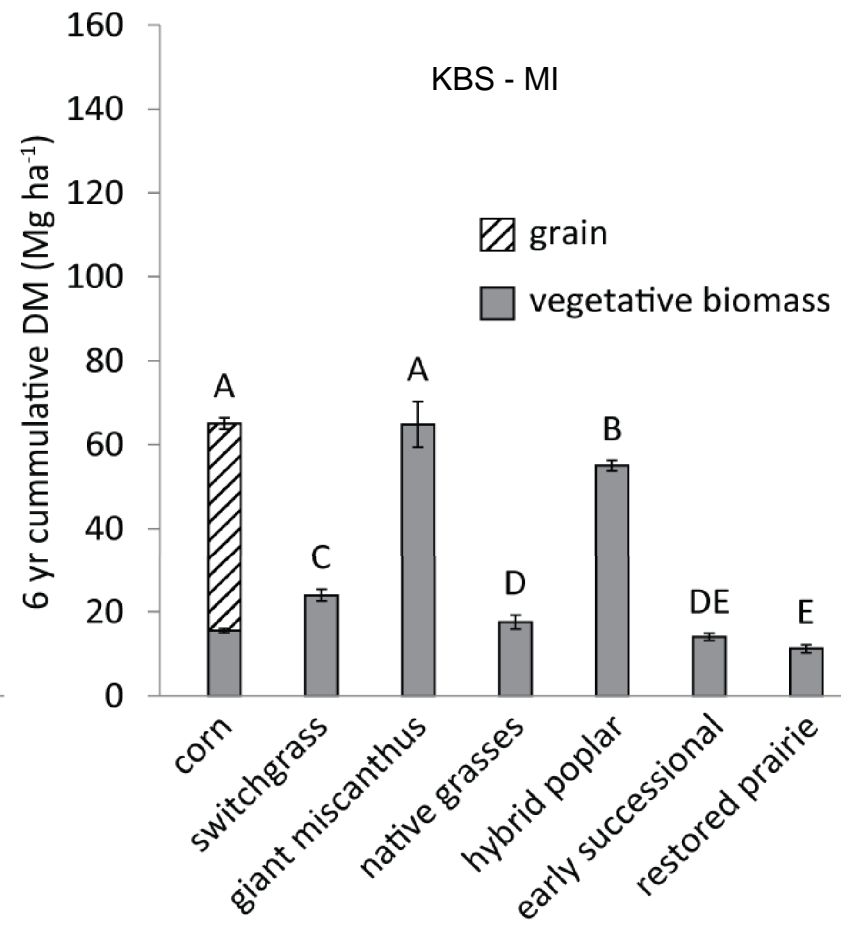
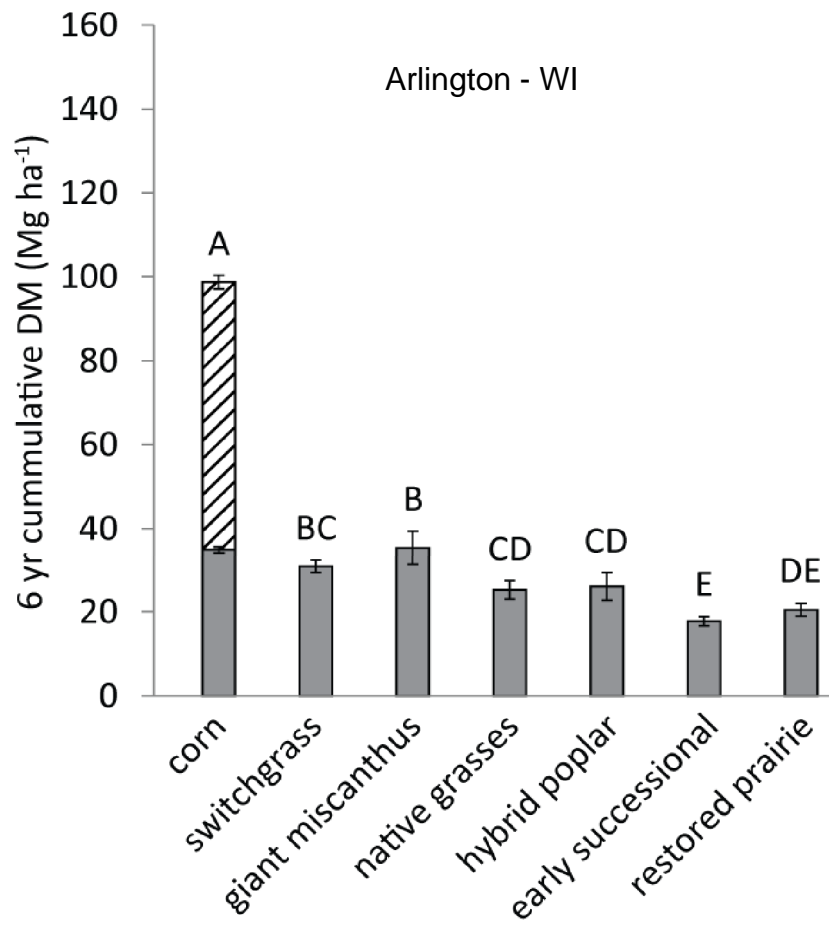
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Annuals more productive than perennials

Monocultures more productive than polycultures



Sanford et al., submitted



More plant diversity results in less biomass yield

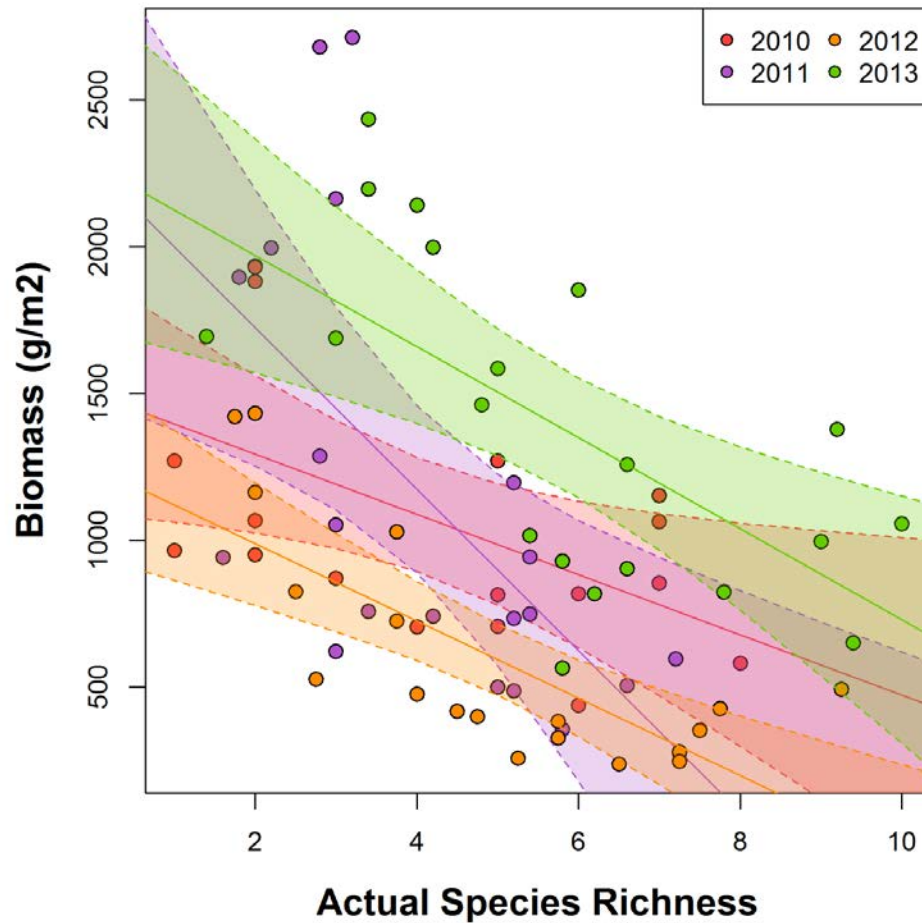


Figure 3 - Regression lines between actual species richness and ANPP at Arlington, separated by year with 95% CIs. All regressions shown are significant. This is using the richness estimates from the point-line intercept transects.

Nikolakakis et al., in prep

Must valorize biomass!

Fuel & Co-Products

AFEX Pellets

BIOREFINERY

**AFEX
Pelletization**

DEPOT

**Agricultural
Residues**

**Herbaceous
Energy Crops**

**AFEX
Pellets**

LANDSCAPE

RUMINANTS

figure courtesy Bruce Dale, Michigan State University

