# Native Warm-season Legumes with Forage Potential in the South-central U.S. Plains. (C06-taylor111221-Poster)

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## Abstract:

Native Texas warm-season herbaceous legumes were evaluated to determine productivity and nutritional value. Irrigation was applied up to monthly 30-yr precipitation averages. Forage from sub-plots of the 17 entries was harvested at 12 cm height throughout the season as plants reached the perimeter of the plot. Yields were greatest (10.2 Mg) in T-S annual Strophostyles helvula. Seed production was measured on no-harvest and harvested subplots throughout the season whenever pods ripened and was greatest for all Desmanthus spp. Desmanthus acuminatus in no-harvest subplots reaching 56000/m2 and 1500/m2 in harvested subplots. Neutral detergent fiber ranged from 46 g/kg (Neptunia pubescence) to 32 g/kg (D. leptolobus); acid detergent fiber ran from 32 g/kg (S. leiosperma) to 15 g/kg (D. leptolobus); and acid detergent fiber lignin from 12 g/kg (Lespedeza procumbens) to 4 g/kg (D. leptolobus). Crude protein concentrations varied from 27 g/kg (D. acuminatus) to 11 g/kg (L. stuevei) while phosphorus ranged from 0.30 g/kg (D. acuminatus) down to 0.15 g/kg (L. stuevei). Other genera studied include Desmodium, Indigofera, Acacia, Leucaena, Galactia and Rhynchosia.

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