



2021 Irrigated Forage Sorghum Hybrid
Performance Trial at Rocky Ford

Table with columns: Brand, Hybrid, Yield (Forage, Dry Matter, 2-Year Avg., Moisture, Brix, Plant Height, Forage Type, Relative Maturity, Traits), Forage Quality (RFQ, CP, aNDFom, Lignin, WSC, Starch, Ash, Fat, NEL, Milk/Ton, Beef/Ton).

All forage quality analyses results are dry basis values. CP=crude protein; aNDFom=ash free neutral detergent fiber; WSC=water-soluble carbohydrates; NDFD=neutral detergent fiber digestibility; TDN=total digestible nutrients; NEL=net energy for lactation; Milk/ton= predicted amount of milk produced per ton of silage dry matter calculated using MILK2013.

Forage yield adjusted to 65% moisture content based on dried samples.

Forage Type: FS=forage sorghum; SS=sorghum sudangrass.

Relative maturities are provided by the companies. E=early; ME=medium-early; M=medium; ML=medium-late; L=late; PPS=photoperiod sensitive.

Traits are provided by the companies. Dashes mean conventional (no traits) or information isn't available. BD=brachytic dwarf; BMR=brown mid-rib; DS=dry stalk; MS=male sterile; SCA=sugar cane aphid.

If the difference between two variety yields equals or exceeds the LSD value, the difference is significant. Farmers selecting a variety based on yield should use the LSD (0.30) to protect from false negative decisions. Companies or researchers may be interested in the LSD (0.05) to avoid false positive conclusions.

Site Information

Collaborator: Arkansas Valley Research Station (Kevin Tanabe, Lane Simmons, and Mike Bartolo)
Planting Date: June 8, 2021
Harvest Date: September 20, 2021
Herbicide: Pre-plant: Paraquat at 1 qt/ac, Mad Dog Plus at 1 qt/ac, and Dual at 1.3 pt/ac
Fertilizer: Pre-plant: N at 10, P at 27, and K at 3 lb/ac
Irrigation: Furrow irrigated
Soil Type: Rocky Ford silty clay loam

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