

2025 Full Irrigation Forage Sorghum Variety Performance Trial at Rocky Ford

Variety	Brand	Yield						Forage Quality ^a																
		Forage ^b	Dry Matter	Yield	5-Year Forage Avg.	Moisture	Brix	Plant Height	Forage Type ^c	Relative Maturity ^d	Traits ^e	RFQ	CP	aNDFo	WSC	NDFD			NEL	Milk/Ton				
		tons/ac	% of test avg.	tons/ac	% at harvest	percent	in				index		m	Lignin	(Sugar)	Starch	Ash	Fat	30hr	240hr	TDN	Mcal/cwt	lb/ton	
Fullgraze II	Dyna-Gro Seed	29.5	10.4	129%	30.7	71	13.1	161	SS	ML	-	66	7.1	63	5.1	9.1	0.7	9.3	0.5	46	63	55	51	1934
FX25001	Dyna-Gro Seed	28.8	10.1	125%	-	83	6.0	149	SS	ML	BMR	70	7.8	67	5.0	6.6	0.1	12.0	0.4	54	69	51	47	1765
Fullgraze II BMR	Dyna-Gro Seed	24.1	8.5	105%	25.8	75	3.4	142	SS	ML	BMR	81	7.6	56	5.2	10.4	1.3	12.7	0.5	49	64	54	53	2049
Danny Boy II BMR	Dyna-Gro Seed	19.4	6.8	85%	27.2	82	8.6	136	SS	PS	BMR	89	9.2	61	5.1	7.4	0.2	13.9	0.6	57	69	51	50	1996
F74FS72 BMR	Dyna-Gro Seed	12.9	4.6	56%	16.2	79	1.3	70	FS	M	BMR	109	10.0	51	4.7	8.4	15.1	11.5	1.0	54	67	57	59	2490
Average		22.9	8.1	100%	25.0	78	6.5	131				83	8.3	60	5.0	8.4	3.5	11.9	0.6	52	66	53	52	2047
°LSD (0.30)		1.1	0.3																					
°LSD (0.05)		2.3	0.7																					
Coefficient of Variation (CV)		8.3	8.3																					

^aAll 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.

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

^cForage Type: FS=forage sorghum; SS=sorghum sudangrass.

^dRelative maturities are provided by the companies. M=medium; ML=medium-late; PS=Photoperiod sensitive.

^eTraits are provided by the companies. Dashes mean conventional (no traits) or information isn't available. BMR=brown mid-rib.

^fFarmers selecting a variety based on yield should use the LSD (.30) to protect themselves from false negative conclusions (concluding varieties are the same when they are actually different). Companies or researchers may use the LSD (.05) to avoid false positive conclusions (concluding varieties are different when they are actually the same).

Site Information

Collaborator: CSU Arkansas Valley Research Center (Jeff Davidson and Kevin Tanabe)

Planting Date: May 30, 2025

Harvest Date: September 22, 2025

Fertilizer: Side-dress: N at 106 lb/ac applied as 32-0-0

Herbicide: None in-season

Soil Type: Rocky Ford silty clay loam

GPS Coordinates: 38.0389, -103.6933

Trial Comments: Planted into marginal moisture, hot and dry through June until mid-July. Trial was cultivated twice and minimal weed pressure was present throughout the season.

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