SOIL AND CROP SCIENCES
COLORADO STATE UNIVERSITY

2025 Limited Irrigated Forage Sorghum Variety Performance Trial at Rocky Ford

CROPS TESTING PROGRAM

		Yield										Forage Quality[a]												
Variety	Brand	Forage[b]	Dry Matter Yield	% of test avg.	5-Year Forage Avg.	Moisture	Brix	Plant Height	Forage Type[c]	Relative Maturity[d]	Traits[e]	RFQ	CP	aNDFom	Lignin	WSC (Sugar)	Starch	Ash	Fat	NDFD 30hr	NDFD 240hr	TDN	NEL	Milk/Ton
		tons/ac			tons/ac	% at harvest	percent	in				index	percent										Mcal/cwt	lb/ton
Fullgraze II	Dyna-Gro Seed	**33.1**	**11.6**	139%	31.4	69	9	164	SS	ML	-	75	7.5	63	5.8	8.3	3.2	8.2	0.6	48	65	55	54	2117
Big Country	Western Select Genetics	**32.0**	**11.2**	135%	-	81	6	158	SS	PS	-	67	7.4	69	6.2	7.0	0.1	10.0	0.5	51	67	50	48	1787
FX25001	Dyna-Gro Seed	30.7	10.7	129%	-	82	7	147	SS	ML	-	70	8.1	70	5.7	5.6	0.1	10.6	0.4	53	67	50	48	1802
F72FS05	Dyna-Gro Seed	27.0	9.4	114%	23.1	72	2	86	FS	ME	-	103	7.5	48	4.1	9.9	24.1	10.0	1.2	46	62	61	61	2562
Excel II	Star Seed	26.8	9.4	113%	-	73	9	136	SS	L	-	81	8.2	53	4.5	11.1	8.1	11.9	0.8	45	63	56	55	2135
Fullgraze II BMR	Dyna-Gro Seed	26.1	9.1	110%	26.2	72	14	143	SS	ML	BMR	85	8.2	56	4.8	10.1	3.6	11.3	0.9	49	63	56	55	2192
EXP 101	Star Seed	25.3	8.9	107%	-	68	8	108	SS	M	-	108	7.6	47	4.8	10.4	19.3	8.9	1.1	45	62	61	63	2658
Danny Boy II BMR	Dyna-Gro Seed	25.3	8.9	106%	28.4	82	6	131	SS	ME	BMR	80	8.4	63	4.1	7.4	0.1	16.7	0.5	58	70	50	46	1721
Packer HGY	Star Seed	24.5	8.6	103%	-	70	2	85	FS	ME	-	137	8.0	42	4.4	10.6	30.2	7.0	1.4	46	62	65	69	3076
Super Sile 30	Dyna-Gro Seed	24.4	8.6	103%	25.2	75	13	107	FS	ME	-	83	7.2	55	4.9	9.1	11.0	11.0	0.8	49	64	56	55	2204
Dynagraze II BMR	Dyna-Gro Seed	23.8	8.3	100%	23.7	69	10	106	SS	ME	BMR	107	7.5	47	5.2	10.8	21.1	8.4	1.2	44	62	61	63	2686
Mad Cow	Western Select Genetics	22.6	7.9	95%	-	70	2	82	SS	ME	-	117	8.2	48	4.5	9.0	23.0	8.6	1.2	50	66	61	64	2769
Super Sile 20	Dyna-Gro Seed	22.5	7.9	95%	26.4	75	11	115	FS	ML	-	82	7.6	52	4.4	10.3	13.3	11.5	0.9	43	60	58	56	2192
Nutrimaxx BMR	Star Seed	21.1	7.4	89%	-	78	9	129	SS	L	BMR	94	8.0	58	4.6	10.1	3.6	9.7	0.6	53	71	57	56	2321
SweetTon MS	Dyna-Gro Seed	20.3	7.1	85%	22.4	76	11	117	GS	ML	SCA	101	7.2	48	3.5	13.1	12.6	10.0	1.0	46	63	62	61	2538
F71FS72 BMR	Dyna-Gro Seed	18.7	6.5	79%	18.4	71	3	83	FS	E	BMR	155	7.2	38	4.1	11.2	33.1	7.7	1.6	47	59	66	71	3213
F74FS72 BMR	Dyna-Gro Seed	16.7	5.8	70%	17.0	77	8	73	FS	M	BMR	124	8.7	49	3.7	9.4	19.0	11.5	1.1	57	67	59	61	2693
Neigher	Western Select Genetics	15.8	5.5	66%	-	82	7	102	SS	PS	-	82	10.5	59	3.8	7.1	0.4	15.6	0.6	54	70	52	48	1827
Suge	Western Select Genetics	14.9	5.2	63%	-	69	9	101	SS	ME	BD, BMR6, DS	117	9.0	45	4.2	10.5	17.8	11.5	1.2	49	62	60	61	2602
	Average	**23.8**	**8.3**	**100%**	**24.2**	**74**	**8**	**114**				**98**	**8.0**	**53**	**4.6**	**9.5**	**12.8**	**10.5**	**0.9**	**49**	**64**	**58**	**58**	**2373**
	[c]LSD (0.30)	2.1	0.7																					
	[c]LSD (0.05)	4.0	1.4																					
	Coefficient of Variation (CV)	6.0	6.0																					

[a]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 digestable nutrients; NEL=net energy for lactation; Milk/ton=predicted amount of milk produced per ton of silage dry matter calculated using MILK2013.

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

[c]Forage Type: GS=grain sorghum; FS=forage sorghum; SS=sorghum sudangrass.

[d]Relative maturities are provided by the companies. E=early; ME=medium-early; M=medium; ML=medium-late; PS=Photoperiod sensitive; L=late.

[e]Traits are provided by the companies. Dashes mean conventional (no traits) or information isn't available. BD=brachytic dwarf; BMR=brown mid-rib; SCA=sugar cane aphid.

[f]Farmers 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 pressue was present throughout the season.