



2021 Dryland Forage Sorghum Hybrid Performance Trial at Walsh

Brand	Hybrid	Forage Yield ^b		Stem Sugar	Harvest Density	Plant Height	Lodging	Days to Boot	Relative Maturity ^c	Forage Type ^d	Traits ^e	Forage Quality ^a														
		tons/ac	% of test avg.									percent	plants/ac (thousand)	in	percent	days after planting	RFQ	CP	ADF	aNDFom	Lignin	Sugar	Starch	Fat	Ash	NDFD 30hr
Dyna-Gro Seed	5 Star	16.7	155	9	49.1	106	46	74	ME	FS	-	112	7	35	55	5	2	14	2	8	54	71	65	67	3,253	126
Dyna-Gro Seed	F72FS05	13.8	128	14	43.6	75	7	74	ME	FS	SCA	110	7	34	54	5	2	17	2	8	52	69	66	68	3,206	120
Mojo Seed	Pearl	13.2	123	9	43.2	80	22	71	M	FS	SCA	124	7	34	50	4	3	19	2	8	53	69	66	68	3,090	150
Browning Seed	Tridan	13.1	122	13	38.0	123	2	63	L	SS	-	126	7	31	47	4	3	23	2	7	48	65	67	69	3,113	143
Browning Seed	Headless Wonder BMR	12.3	114	9	51.1	106	12	68	PPS	SS	BMR	102	7	36	59	5	1	8	2	7	54	69	65	67	3,021	106
Dyna-Gro Seed	F71FS72 BMR	11.9	111	9	50.3	56	41	67	E	FS	BMR	157	8	26	42	4	3	23	3	8	54	67	68	71	3,238	190
Dyna-Gro Seed	FX21815	11.8	109	10	45.9	48	0	72	ME	FS	-	167	10	24	40	3	2	29	3	6	51	66	69	71	3,091	202
Dyna-Gro Seed	First Graze	11.6	108	11	40.0	84	36	61	ME	SS	-	119	8	31	49	5	2	18	2	7	49	65	66	69	2,876	133
Dyna-Gro Seed	Dynagraze II BMR	11.5	107	8	56.2	99	36	62	ME	SS	BMR	139	7	33	49	5	3	20	2	7	56	71	66	68	2,957	181
Dyna-Gro Seed	Fullgraze II	10.5	97	19	57.0	95	5	77	ML	SS	-	121	8	31	52	4	2	5	3	6	54	71	66	69	2,969	163
Dyna-Gro Seed	Super Sile 30	10.4	96	13	38.8	58	4	83	ME	FS	-	124	9	31	52	4	1	7	2	9	58	75	67	69	2,855	153
Dyna-Gro Seed	Sweet Ton MS	10.4	96	8	54.3	90	54	63	ML	FS	-	130	9	31	53	3	2	10	2	10	62	75	67	69	2,899	165
Dyna-Gro Seed	F70FS91 BMR	10.4	96	13	50.7	76	21	71	E	FS	BMR	148	9	28	47	4	3	15	3	8	59	73	68	70	3,161	197
Dyna-Gro Seed	Dynagraze II	9.7	90	16	51.5	81	41	61	ME	SS	-	115	8	33	52	5	2	17	2	8	51	67	66	68	2,953	125
Dyna-Gro Seed	Super Sweet 10	9.6	89	10	53.1	84	14	63	ME	SS	-	133	8	29	47	4	3	20	3	7	52	67	67	70	2,819	164
Browning Seed	Cadan 99B WMR	9.1	84	14	57.8	80	5	62	E	SS	DS	153	9	28	42	4	3	27	3	5	49	64	68	70	2,885	194
Browning Seed	Sweet Sioux BMR VI	9.1	84	17	46.7	72	40	71	L	SS	BMR	146	8	30	48	4	3	11	2	9	60	74	67	69	2,937	187
Dyna-Gro Seed	Fullgraze II BMR	8.5	79	14	35.6	76	2	89	ML	SS	BMR	141	9	31	52	4	3	5	2	9	64	78	67	69	2,943	193
Dyna-Gro Seed	F74FS23 BMR	8.1	75	12	47.1	66	56	73	M	FS	BMR	128	9	32	52	4	3	8	2	13	61	75	66	68	3,023	143
Dyna-Gro Seed	Danny Boy II BMR	7.7	71	10	45.5	83	1	Veg	PPS	SS	BMR	117	9	35	55	4	2	3	2	13	61	75	65	67	2,784	120
Browning Seed	Sweet Sioux WMR	7.1	66	12	50.3	94	10	63	L	SS	-	118	9	35	51	5	2	11	2	6	51	68	65	67	2,805	154
Average		10.8		12	47.9	82	22	69				130	8	31	50	4	2	15	2	8	55	70	66	69	2,994	158
LSD (0.20)		1.4																								

^aAll forage quality analyses results are dry basis values. CP=crude protein; aNDFom=ash free neutral detergent fiber; 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.

^bYields are adjusted to 65% moisture content based on oven-dried samples.

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

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

^eTraits are provided by the companies. DS=dry stalk; BMR=brown mid-rib; SCA=Sugar Cane Aphid.

^fThe LSD can be used to judge whether the observed difference between any two entries is meaningful. There is a 20% chance of observing a difference between two entries as great or greater than the LSD.

Site Information

Collaborator: Plainsman Research Center (Kevin Larson & Brett Pettinger)

Planting Date: June 7, 2021

Harvest Date: September 23, 2021

Previous Crop: Wheat

Herbicide: Pre-emerge: Flumioxazin at 2.5 oz/ac; Atrazine at 1.0 lb/ac; and Metolachlor at 1.33 pts/ac

Fertilizer: Anhydrous N at 60 lb/ac and 10-34-0 at 5 gal/ac was strip till applied

Soil Type: Richfield silt loam

Comments: Planted into strip tilled wheat stubble. Rapid emergence and good stands. From planting (June 7) to Aug. 1, the trial received 6.49 inches of rain. The rest of the growing season was dry, totaling 0.90 inches of rain from Aug.2 to Sept. 23 (harvest). Weed control was good. Some lodging noted at harvest.

The data included in this table may not be republished without permission. Contact Sally Jones-Diamond (sally.jones@colostate.edu) or Kevin Larson (kevin.larson@colostate.edu).