COLORADO STATE UNIVERSITY EXTENSION

2023 Dryland Hybrid Forage Sorghum Performance Trial at Walsh

Crops Testing www.csucrops.com

Brand	Hybrid	Forage Yield[a]	Yield	Brix	Harvest Density	Plant Height	Lodging	Days to Flowering	Relative Maturity[b]	Forage Type[c]	Traits[d]
		tons/ac	% of test avg.	%	plants/ac (1000x)	in	%	days after planting			
DynaGro	Super Sile 30	13.4	144	11.2	51.9	79	1	95	M/ME	FS	-
DynaGro	F72FS05	11.0	118	9.6	49.2	55	0	96	M/ME	FS	-
DynaGro	Fullgraze II	10.7	115	16.8	55.4	104	0	103	ML	SS	-
Sorghum Partners	SS405	10.7	114	14.1	44.5	87	3	112	ML	FS	-
DynaGro	Super Sile 20	10.5	112	16.2	57.3	81	0	106	ML	FS	-
Sorghum Partners	SP2707 DT	10.5	112	14.5	41.4	44	0	87	M/ME	FS	DT
Sorghum Partners	SP2606 BMR	10.3	110	12.3	48.8	56	5	87	M/ME	FS	BMR
DynaGro	F74FS23 BMR	10.1	108	8.5	48.8	71	1	95	M	FS	BMR
DynaGro	Danny Boy II BMR	10.0	107	13.3	52.3	81	0	Veg	PPS	SS	PPS BMR
DynaGro	F74FS72 BMR	9.5	102	15.3	54.6	49	0	107	ML/M	FS	BMR
DynaGro	Fullgraze II BMR	9.4	101	12.8	53.8	82	0	129	L/ML	SS	BMR
DynaGro	Sweet Ton MS	9.3	100	13.3	51.9	92	6	79	M/ML	FS	MS
Sorghum Partners	NK300	8.7	93	8.0	50.3	55	1	85	M/ME	FS	-
DynaGro	F72FS25 BMR	8.5	90	12.8	41.8	55	0	98	M	FS	BMR
DynaGro	F75FS13	8.3	89	8.2	46.5	84	32	74	ME/M	FS	-
DynaGro	F71FS72 BMR	8.2	88	12.1	49.2	67	13	73	ME/E	FS	BMR
Sorghum Partners	SP1727 MS BMR	8.1	87	8.6	51.1	75	3	81	M	FS	MS BMR
DynaGro	Dynagraze II BMR	7.8	83	16.5	51.5	86	0	80	M/ME	SS	BMR
DynaGro	Super Sweet 10	6.0	64	12.5	48.4	74	6	71	ME/M	SS	-
DynaGro	Dynagraze II	5.9	63	11.7	45.7	85	3	73	ME	SS	-
Average		**9.3**	**100**	**12.4**	**49.7**	**73**	**4**	**91**			
[e]LSD (P<0.20)		1.01					3.1				
[e]LSD (P<0.05)		1.56					4.8				

[a]Yields are adjusted to 65% moisture content based on oven-dried samples.

[b]Relative Maturity: E=early; ME=medium-early; M=medium; ML=medium-late; L=late; PPS=photoperiod sensitive. Maturity groups with two classes are trial observation/seed company description.

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

[d]Traits: BD=brachytic dwarf; BMR=brown mid-rib; DT=Double Team; SCA=Sugar Cane Aphid.

[e]Farmers selecting a hybrid based on yield should use the LSD (.20) to protect themselves from false negative conclusions (concluding hybrids are the same when they are actually different). Companies or researchers may be interested in the LSD (.05) to avoid false positive conclusions (concluding hybrids are different when they are actually the same). Yield differences less than the LSD value are considered the same.

Site Information

Collaborator: Plainsman Research Center (Kevin Larson & Brett Pettinger)
Planting Date: June 2, 2023
Harvest Date: October 17, 2023
Previous Crop: Wheat
Herbicide: Preemergence: Flumioxazin at 3.0 oz/ac, Atrazine at 1.0 lb/ac, Mesotrione at 6.0 oz/ac, Metolachlor at 1.33 pt/ac, Gylphosate at 32 oz/ac
Post emergence: Huskie at 15 oz/ac, Atrazine at 0.5 lb/ac, NIS at 8 oz/ac, AMS at 1.0 lb/ac
Fertilizer: Anhydrous N at 60 lb/ac and 10-34-0 at 5 gal/ac (20 lb P_2O_5/ac, 6 lb N/ac) was strip till applied
Soil Type: Richfield silt loam
Trial Comments: Planted into strip tilled wheat stubble. Rapid emergence and good stands. Precipitation for the growing season was well above average. June and July were wet (5.18 in. for June and 6.33 in for July). August was dry (1.90 in). Weed control was good. Two hybrids had greater than 10% lodging at harvest.

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