

Trial Number: Sorghum-01- Grain Sorghum Variety Trial



Objective: Evaluate hybrid yield and maturity differences under dryland and irrigated conditions.

Location: SWCRC Yellow Jacket, CO

Researcher(s): Kathleen Russell

Crop: Sorghum

Target Rate (seeds/A): 34,000 Irrigated
32,000 Dryland

Planting Date: 6/2/2017

Harvest Date: 10/13/2017 Irrigated
9/26/2017 Dryland

Harvest Device: Hand Harvest

Weighing Device: Calibrated Scale

Soil Type: Wetherill Loam

Previous Crop: Wheat/ Summer Fallow

Row Width (in): 12

Tillage: Disk

Harvest Rows: 2

Fertilizer Rate/A (lb/A)	Timing	Totals
N: 110.0	Preplant	110.00
P2O5: 55.0	Preplant	55.00
K2O:		0.00
Other:		0.00

Notes: Due to poor emergence and bird damage the trial was hand harvested using 10' transects along the center two rows per plot. Early maturity will be recommended for limited growing season. Decrease seeding rate for dryland conditions.

Trial Results:

Entry	Cooperator	Hybrid	Dryland		Irrigated	
			Grain Yield (bu/A)	Anthesis Date	Grain Yield (bu/A)	Anthesis Date
1	Alta Seeds	AG1101	45.65	1-Aug	91.21	3-Aug
2	Alta Seeds	AG1201	51.25	9-Aug	74.73	17-Aug
3	DeKalb	DKS28-05	60.61	5-Aug	91.60	19-Aug
4	DeKalb	DKS29-07	37.23	25-Aug	44.15	29-Aug
5	DeKalb	DKS29-28	59.45	21-Aug	83.96	24-Aug
6	DeKalb	DKS33-07	36.97	25-Aug	49.02	29-Aug
7	Sorghum Partners	KS 310	46.19	13-Aug	71.83	21-Aug
8	Richardson Seeds	NUS 310	65.13	13-Aug	79.91	22-Aug
9	Richardson Seeds	NUS 320	47.77	9-Aug	72.27	16-Aug
10	Sorghum Partners	SP 25C10	40.82	3-Aug	75.64	13-Aug
11	Sorghum Partners	SP 31A15	48.48	13-Aug	61.04	22-Aug
12	Sorghum Partners	SP 33S40	51.04	13-Aug	71.72	21-Aug
13	Richardson Seeds	SPRINT II	55.29	9-Aug	85.77	21-Aug
14	Richardson Seeds	SWIFT	48.62	1-Aug	74.51	3-Aug
			<u>Dryland</u>		<u>Irrigated</u>	
Mean			49.61		73.38	
SE			5.2		10.5	
CV			21.1		28.7	
LSD (p<0.05)			15.3		30.1	