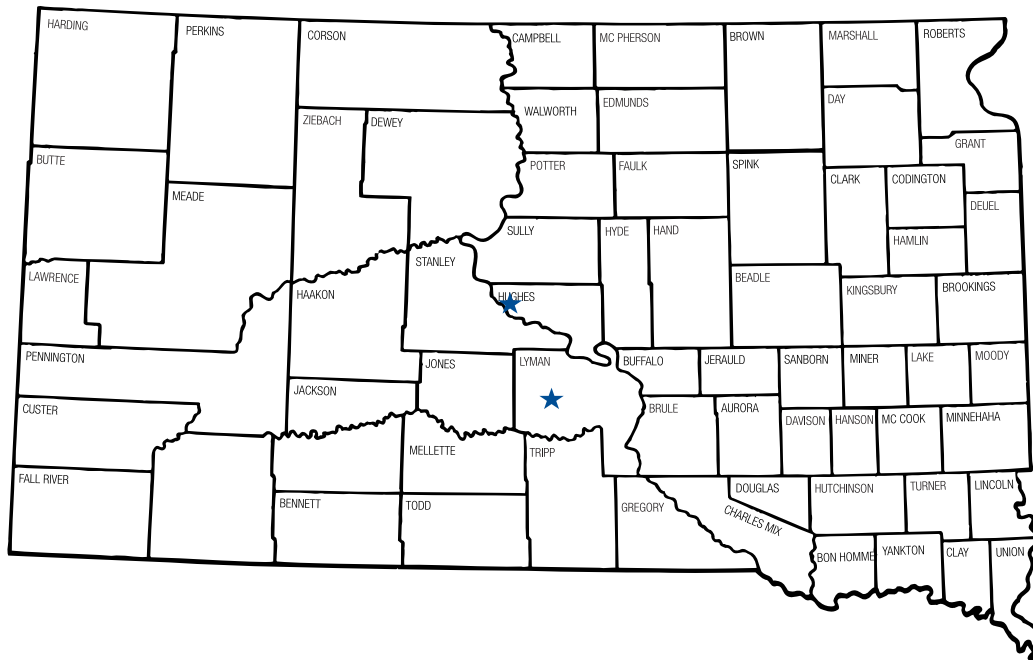


2019 South Dakota Sorghum Hybrid Trial Results Kennebec

Bruce Swan | Agricultural Research Manager
Christopher Graham | SDSU Extension Agronomist



Central trial locations: Kennebec and Pierre

Acknowledgements:

Thanks to Mr. Kim Halverson and Dr. Dwayne Beck and crew for hosting these trials at Kennebec and the Dakota Lakes Research Farm, respectively.

Table 1. List of sorghum hybrids tested in 2019 along with seed supplier and agronomic characteristics.

Hybrid	Company	Maturity Group (E, M/E, M)†	Days to 50% Bloom	Grain Color (B, C, R, W, Y)‡	Panicle Type (SC or SO)§	Resistance to greenbug biotype:
GX17912	Dyna-Gro	E	59	C	SO	C, E, I
M57GB19	Dyna-Gro	E	57	B	SO	C, E
GX18919	Dyna-Gro	E	57	C	SO	C, E, I
M60GB88	Dyna-Gro	M/E	60	B	SO	C, E
M59GB57	Dyna-Gro	E	59	B	SO	--
M60GB31	Dyna-Gro	M/E	60	B	SO	C, E, I, K
M54GR24	Dyna-Gro	E	54	R	SO	C & E
M62GB77	Dyna-Gro	M	62	B	SO	C, E, I
GX19520	Dyna-Gro	E	60	B	SO	C, E, I
M57GC29	Dyna-Gro	E	57	C	SO	C & E
DKS28-05	Bayer (Dekalb)	E	57	B	SC	--
DKS29-07	Bayer (Dekalb)	E	59	C	I	--
2730B	Golden Acres	M/E	58	B	SO	--
2620C	Golden Acres	M/E	58	C	SO	--
2840B	Golden Acres	M/E	62	B	SO	--
3020B	Golden Acres	M	69	B	SO	--
88P71	Pioneer	M/E	60	R	SC	--
87P10	Pioneer	M	63	R	SC	--
SP 25C10	Sorghum Partners	E	51	C	SC	--
SP 31A15	Sorghum Partners	M/E	57	B	SC	--
SP 33S40	Sorghum Partners	M/E	58	C	SC	--
SP 43M80	Sorghum Partners	M/E	60	B	SO	--
SP 68M57	Sorghum Partners	M/E	68	B	SC	--
AS 212	Arrow Seed	E	51	B	SO	--
AS 248FG	Arrow Seed	M/E	59	W	SO	--
LGS 5001	Legend Seeds	E	50	B	SO	--
LGS 5002	Legend Seeds	E	52	R	SO	C & E
LGS 5508W	Legend Seeds	M/E	58	W	SO	C & E
LGS 5808	Legend Seeds	M/E	58	R	SC	C & E
GS-855	Seed Exchange	E	52	R	SO	--
GS-750	Seed Exchange	E	57	C	SO	C & E
AG 1101	Advanta Seeds	E	55	R	SC	--
ADV G1150	Advanta Seeds	--	--	--	--	--
AG 1201	Advanta Seeds	E	60	B	SC	--
ADV XG629	Advanta Seeds	E	58	C	SC	--
ADV XG9127	Advanta Seeds	--	--	--	--	--

† Maturity: E=Early, M/E = Medium Early, M = Medium

‡ Grain Color: B = Bronze, C = Cream, R = Red, Y = Yellow

§ Panicle type: SC = Semi-Closed, SO = Semi-Open

Table 2. 2019 sorghum hybrid performance trial results for testing sites in Kennebec, South Dakota. Varieties ranking in the top 1/3 of each trial category are shaded light blue.

Variety	2019	2-year	3-year
	Yield (bu/a)	Yield (bu/a)	Yield (bu/a)
2620C	97	-	-
2730B	102	-	-
2840B	74	-	-
3020B	76	-	-
ADV G1150	87	-	-
ADV XG629	83	72	-
ADV XG9127	71	-	-
AG 1101	85	72	66
AG 1201	85	77	69
AS 212	90	66	-
AS 248 FG	76	-	-
DKS28-05	123	95	-
DKS29-07	101	83	-
GS-750	92	72	-
GS-855	102	-	-
GX17912	106	88	-
GX18919	113	86	-
GX19520	87	-	-
LGS 5001	107	79	67
GS 5002	88	74	-
GS 5508W	77	64	62
LGS 5808	94	73	68
M54GR24	102	-	-
M57GB19	87	-	-
M57GC29	83	-	-
M59GB57	102	86	-
M60GB31	77	66	-
M60GB88	96	70	-
M62GB77	88	-	-
Pioneer 87P10	100	-	-
Pioneer 88P71	110	-	-
SP 25C10	101	-	-
SP 31A15	122	98	82
SP 33S40	95	-	-
SP 43M80	106	-	-
SP 68M57	97	78	-
Trial Average#	94	78	69
LSD(0.05)†	28	14	12
C.V.%‡	17	-	-

Trial averages may include values from experimental lines that are not reported.

† Value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is considered acceptable.