



NOVEMBER 2020

SOUTH DAKOTA STATE UNIVERSITY®  
AGRONOMY, HORTICULTURE, & PLANT SCIENCE DEPARTMENT

# 2020 South Dakota Sorghum Hybrid Trial Results Presho

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**Central trial locations:** Presho and Pierre

**Acknowledgements:** Thanks to Mr. Steve Fox and Dr. Dwayne Beck and crew for hosting these trials at Presho and the Dakota Lakes Research Farm, respectively.

Table 1. List of sorghum hybrids tested in 2020 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:
SP25C10	Sorghum Partners	E	51	C	SC	--
SP31A15	Sorghum Partners	M/E	57	B	SC	--
SP68M57	Sorghum Partners	M/E	68	B	SC	--
SP43M80	Sorghum Partners	M/E	60	B	SO	--
251	Sorghum Partners	E	52	R	SO	--
M54GR24	Dyna-Gro Seed	E	54	R	SO	C,E
GX18919	Dyna-Gro Seed	E	57	C	SO	C,E,I
M57GC29	Dyna-Gro Seed	E	57	C	SO	C,E
M57GB19	Dyna-Gro Seed	E	57	B	SO	C,E
M59GB57	Dyna-Gro Seed	E	59	B	SO	NONE
GX17912	Dyna-Gro Seed	E	59	C	SO	C,E,I
M59GB94	Dyna-Gro Seed	M/E	59	B	SO	C,E,I
M60GB31	Dyna-Gro Seed	M	60	B	SO	C,E,I,K
M60GB88	Dyna-Gro Seed	M	60	B	SO	C,E
M62GB77	Dyna-Gro Seed	M	62	B	SO	C,E,I
LGS 5002	Legend Seeds	E	52	R	SO	C,E
LGS 5508W	Legend Seeds	ME	58	W	SO	C,E
AS212	Arrow Seed	E	51	R	SO	--
AS248FG	Arrow Seed	ME	59	W	SO	--
2620C	Golden Acres	ME	59	C	SO	--
2730B	Golden Acres	ME	59	B	SO	--
2950B	Golden Acres	ME	58	B	SO	--
1510C	Golden Acres	E	57	C	SO	--
AG1201	Advanta	--	--	--	--	--
ADV XG076	Advanta	--	--	--	--	--
ADV XG9127	Advanta	--	--	--	--	--
ADV G1329	Advanta	--	--	--	--	--
GW 18057	Gayland Ward	E	58	R	SO	C,E,I
GW 18072	Gayland Ward	ME	62	W	SO	C,E,I
GW 18096	Gayland Ward	ME	62	W	SC	C,E,I
GW 18567	Gayland Ward	E	58	W	SC	C,E,I
GW 19007	Gayland Ward	ME	62	R	SO	C,E,I
GW 19014	Gayland Ward	ME	62	R	SO	C,E,I
GW 19015	Gayland Ward	ME	62	R	SO	C,E,I

† 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. 2020 sorghum hybrid performance trial results for testing site in Presho, South Dakota. Varieties ranking in the top 1/3 of each trial category are shaded light blue.

Variety	2020	2-year	3-year
	Yield (bu/a)	Yield (bu/a)	Yield (bu/a)
251	79	-	-
1510C	94	-	-
2620C	<b>105</b>	-	-
2730B	95	-	-
2950B	<b>96</b>	-	-
ADV G1329	78	-	-
ADV XG076	73	-	-
ADV XG9127	75	-	-
AG1201	83	-	-
AS212	<b>98</b>	-	-
AS248FG	<b>100</b>	-	-
GW 18057	<b>100</b>	-	-
GW 18072	94	-	-
GW 18096	72	-	-
GW 18567	79	-	-
GW 19007	79	-	-
GW 19014	<b>98</b>	-	-
GW 19015	76	-	-
GX17912	<b>107</b>	-	-
GX18919	53	-	-
LGS 5002	79	-	-
LGS 5508W	63	-	-
M54GR24	70	-	-
M57GB19	<b>108</b>	-	-
M57GC29	77	-	-
M59GB57	82	-	-
M59GB94	82	-	-
M60GB31	<b>111</b>	-	-
M60GB88	86	-	-
M62GB77	<b>104</b>	-	-
SP25C10	87	-	-
SP31A15	71	-	-
SP43M80	87	-	-
SP68M57	<b>96</b>	-	-
<b>Trial Average#</b>	86	-	-
<b>LSD(0.05)†</b>	35	-	-
<b>C.V.%‡</b>	21	-	-

# 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 ideal.