



**SOUTH DAKOTA
STATE UNIVERSITY**
*College of Agriculture, Food
and Environmental Sciences*

South Dakota State University Extension
South Dakota Agricultural Experiment Station at SDSU

2021 South Dakota Sorghum Hybrid Trial Results Pierre

Bruce Swan | Agricultural Research Manager
Sharla Kesterson | SDSU Research Technician
Christopher Graham | SDSU Extension Agronomist

Central trial locations: Presho and Pierre

Acknowledgements: Thanks to Mr. Stan Halvorsen and Dr. Dwayne Beck and crew for hosting these trials at Kennebec and the Dakota Lakes Research Farm, respectively.

Individual trial location results can be accessed online at: <https://extension.sdstate.edu/sorghum-trial-results>



**SOUTH DAKOTA STATE
UNIVERSITY EXTENSION**

2021 South Dakota Sorghum Hybrid Trial Results Variety List

Table 1. List of sorghum hybrids tested in 2021 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 or other traits:
AG1101	Advanta	E	55	R	SO	none
ADV XG015 IG	Advanta	M/E	60	R	SO	IGROWTH
ADV XG272	Advanta	M/E	63	R	SO	none
ADV G1329	Advanta	E	58	C	SC	SCA
ADV G1201	Advanta	E	60	R	SO	SCA
ADV G1153	Advanta	-	-	-	-	none
ADV G1120 IG	Advanta	M/E	60	R	SC	IGROWTH
ADV XG160	Advanta	M/E	63	R	SO	none
M54GR24	Dyna-Gro Seed	E	54	R	SO	C,E
GX20973	Dyna-Gro Seed	M/E	61	B	SO	C,E,I
M63GB78	Dyna-Gro Seed	M	63	B	SO	C,E,I
M59GB57	Dyna-Gro Seed	E	59	B	SO	C,E
M60GB31	Dyna-Gro Seed	M/E	60	B	SO	C,E,I
M59GB94	Dyna-Gro Seed	E	59	B	SO	C,E,I
M60GB88	Dyna-Gro Seed	M/E	60	B	SO	C,E
LGS 5002	Legend Seeds	E	52	R	SO	C,E
LGS 6321	Legend Seeds	M/E	63	B	SO	none
1510C	LG Seeds	E	56	C	SO	none
2950B	LG Seeds	M/E	58	B	SO	none
2620C	LG Seeds	M/E	58	C	SO	none
2730B	LG Seeds	M/E	58	B	SO	none
SP25C10	Sorghum Partners	E	51	C	SO	none
SP31A15	Sorghum Partners	M/E	57	B	SO	none
SP68M57	Sorghum Partners	M	67	B	SO	none
SP43M80	Sorghum Partners	M/E	60	B	SO	none
251	Sorghum Partners	E	52	R	SO	none
SWGS3183	Sorghum Partners	M	65	B	SO	none

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

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

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



2021 South Dakota Sorghum Hybrid Trial Results Pierre

**SOUTH DAKOTA STATE
UNIVERSITY EXTENSION**

Table 2. 2021 sorghum hybrid performance trial results for testing site in Pierre, South Dakota. Varieties ranking in the top third of each trial category are shaded light blue.

Variety	2021		2-year Yield (bu/a)	3-year Yield (bu/a)
	Yield (bu/a)	Test Weight (lb/bu)		
1510C	55	57.6	79	-
2620C	65	56.1	103	115
2730B	61	56.7	107	115
2950B	61	56.2	87	-
ADV G1120 IG	43	55.1	-	-
ADV G1153	45	55.4	-	-
ADV G1201	64	57.6	-	-
ADV G1329	59	58.0	75	-
ADV XG015 IG	31	-	-	-
ADV XG160	39	53.7	-	-
ADV XG272	40	56.8	-	-
AG1101	51	52.7	-	-
GX20973	66	60.0	-	-
LGS 5002	51	57.5	83	95
LGS 6321	52	56.5	-	-
M54GR24	50	57.0	97	109
M59GB57	50	52.1	77	94
M59GB94	61	55.7	95	111
M60GB31	50	56.3	81	105
M60GB88	51	56.9	70	91
M63GB78	52	56.9	-	-
SP251	42	54.9	71	-
SP25C10	50	52.3	82	91
SP31A15	60	55.2	90	104
SP43M80	57	57.0	82	98
SP68M57	58	58.3	86	102
SWGS3183	56	56.1	-	-
Average	53	56.1	85	103
LSD(0.05)†	14	2.2	24	17
C.V.%‡	16	2.0	71	71

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.