

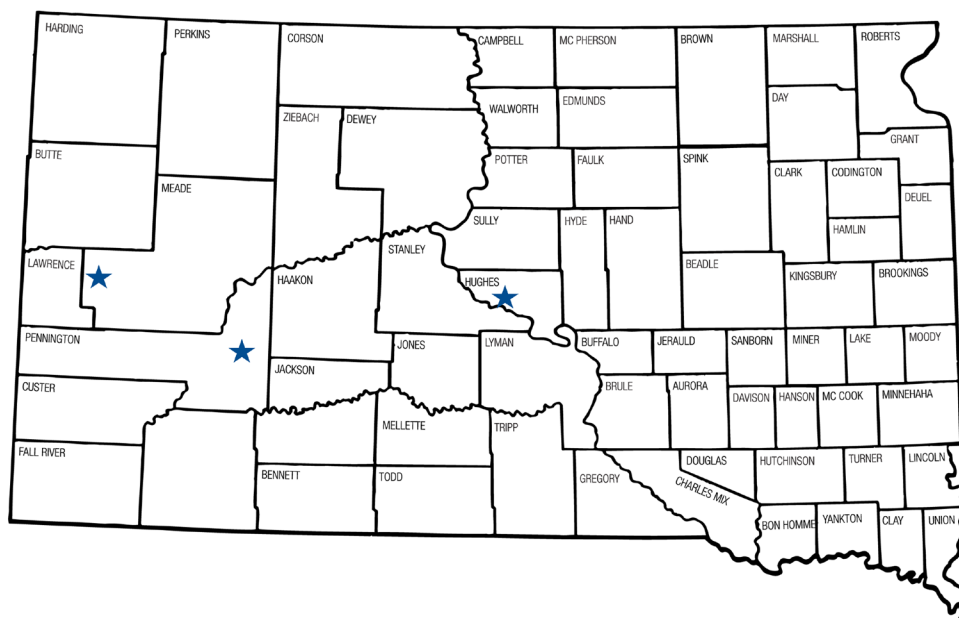


**SOUTH DAKOTA
STATE UNIVERSITY**
College of Agriculture, Food
and Environmental Sciences

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

2023 South Dakota Field Pea Variety Trial Results Pierre

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Central trial locations: Pierre

Western trial locations: Wall, Sturgis

Cultural Practices:

Planting Rate: 350,000 viable seeds/ac

Inoculation: N-Charge granular inoculant

Herbicide: Sulfentrazone + Roundup

Acknowledgements: Thanks to the South Dakota Pulse Council for funding these trials and Sam Ireland and the Dakota Lakes staff for plot assistance.

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

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**2023 South Dakota
Field Pea Variety Trial Results
Variety List**

Table 1. List of field pea varieties tested in 2023 along with seed supplier and agronomic characteristics.

Variety	Seed Supplier	Seed Color	Seeds/lb
GTPC001	Gen Tech	Yellow	1747
GTPC003	Gen Tech	Yellow	2188
GTPC004	Gen Tech	Yellow	1918
GTPC005	Gen Tech	Yellow	1968
GTPC006	Gen Tech	Yellow	1960
Durwood	Pulse USA	Yellow	2215
LG Amigo	Pulse USA	Yellow	1882
Korando	Pulse USA	Yellow	1688
DL Apollo	Pulse USA	Yellow	2048
LG Sunrise	Pulse USA	Yellow	1633
Arcadia	Pulse USA	Green	1491
Flute	Pulse USA	Green	1916
PS17100022	USDA ARS	Yellow	1980
PS17100008	USDA ARS	Yellow	1873
AAC Carver	Meridian Seeds, LLC	Yellow	2296
CDC Inca	Meridian Seeds, LLC	Yellow	1853
CDC Spectrum	Meridian Seeds, LLC	Yellow	2204
MS Grow Pro	Meridian Seeds, LLC	Yellow	2609
AAC Beyond	Meridian Seeds, LLC	Yellow	2536
MS ProStar	Meridian Seeds, LLC	Yellow	2131
Winterberry	Meridian Seeds, LLC	Yellow	3266
Aragorn	Progene	Green	2495
Pro 024-7510	Progene	Yellow	1740
Pro 171-7665	Progene	Green	3007
Pro 213-7333	Progene	Yellow	1965
Boast	Great Northern AG	Yellow	2045
5206	Great Northern AG	Yellow	2594
AAC Chrome	Great Northern AG	Yellow	2293
Hyline	Great Northern AG	Yellow	2132
Julius	Great Northern AG	Yellow	2624
AAC Profit	Great Northern AG	Yellow	2270
Salamanca	Great Northern AG	Yellow	2508
Shamrock	Great Northern AG	Green	2076
CDC 5791-9	LimaGrain	Yellow	1804
CDC 5845-2	LimaGrain	Yellow	1904
6124-7	LimaGrain	Yellow	2066
6087-11	LimaGrain	Yellow	1946
6121-9	LimaGrain	Yellow	2108
6020-11	LimaGrain	Yellow	2246
6138-1	LimaGrain	Yellow	2208
6232-4	LimaGrain	Green	1708
LGP4184	LimaGrain	Yellow	2350
LGP4185	LimaGrain	Yellow	2130



2023 South Dakota Field Pea Variety Trial Results Pierre (Dakota Lakes)

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Table 2. 2023 field pea variety performance trial results in Pierre, South Dakota. Varieties ranking in the top quartile of each trial category are bold and shaded light blue.

Variety	2023				2-Yr Average	
	Yield (bu/a)	95% Confidence Interval (bu/a)‡		Protein (%)	Yield (bu/a)	Protein (%)
5206	38	29	46	26.1	-	-
6020-11	39	31	48	25.6	-	-
6087-11	36	27	44	26.2	-	-
6121-9	38	30	47	25.7	-	-
6124-7	46	37	55	25.6	-	-
6138-1	31	23	40	26.5	-	-
6232-4	35	26	44	24.5	-	-
AAC Beyond	38	29	47	25.5	-	-
AAC Carver	39	31	48	25.7	41	25.3
AAC Chrome	30	21	39	25.4	33	25.7
AAC Profit	38	29	46	26.1	39	26.6
Aragorn	26	17	34	26.4	33	26.5
Arcadia	23	15	32	24.8	32	24.9
Boast	31	22	39	26.0	-	-
CDC 5791-9	37	29	46	26.3	-	-
CDC 5845-2	34	25	42	26.3	-	-
CDC Inca	36	27	44	25.5	41	26.0
CDC Spectrum	38	29	47	26.0	42	26.2
DL Apollo	37	28	45	27.1	39	27.8
Durwood	33	24	41	26.2	38	26.0
Flute	29	21	38	25.8	35	25.9
GTPC001	33	25	42	25.4	-	-
GTPC003	32	24	41	26.2	-	-
GTPC004	35	26	43	25.9	-	-
GTPC005	38	30	47	26.8	-	-
GTPC006	35	26	43	26.8	-	-
Hyline	30	22	39	25.8	39	26.1
Julius	29	20	38	26.4	-	-
Korando	31	22	40	27.0	37	27.5
LG Amigo	38	30	47	25.6	37	25.9
LG Sunrise	36	28	45	24.5	-	-
LGPN4184	28	19	36	26.4	-	-
LGPN4185	31	22	40	26.7	-	-
MS GrowPro	38	29	46	27.0	38	27.4
MS ProStar	35	26	43	25.7	-	-

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

‡ The confidence interval suggests that if this trial was conducted many times over, the mean for each variety would fall within this range 95% of the time.



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2023 South Dakota Field Pea Variety Trial Results Pierre (Dakota Lakes)

Variety	2023				2-Yr Average	
	Yield (bu/a)	95% Confidence Interval (bu/a)‡		Protein (%)	Yield (bu/a)	Protein (%)
Pro-024-7510	31	22	40	27.0	-	-
Pro-213-7333	29	20	37	26.7	-	-
Pro-7665	27	19	36	26.2	35	25.3
PS17100008	20	12	29	26.7	-	-
PS17100022	40	32	49	26.8	-	-
Salamanca	38	29	47	25.9	41	26.6
Shamrock	32	23	41	25.7	38	26.1
Winterberry	41	32	49	25.5	-	-
Average	34	-	-	26.0	38	26.2
CV	19	-	-	3	-	-
LSD†	8.7	-	-	1.1	NS	0.9

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

‡ The confidence interval suggests that if this trial was conducted many times over, the mean for each variety would fall within this range 95% of the time.