



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

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

2024 South Dakota Field Pea Variety Trial Results Pierre

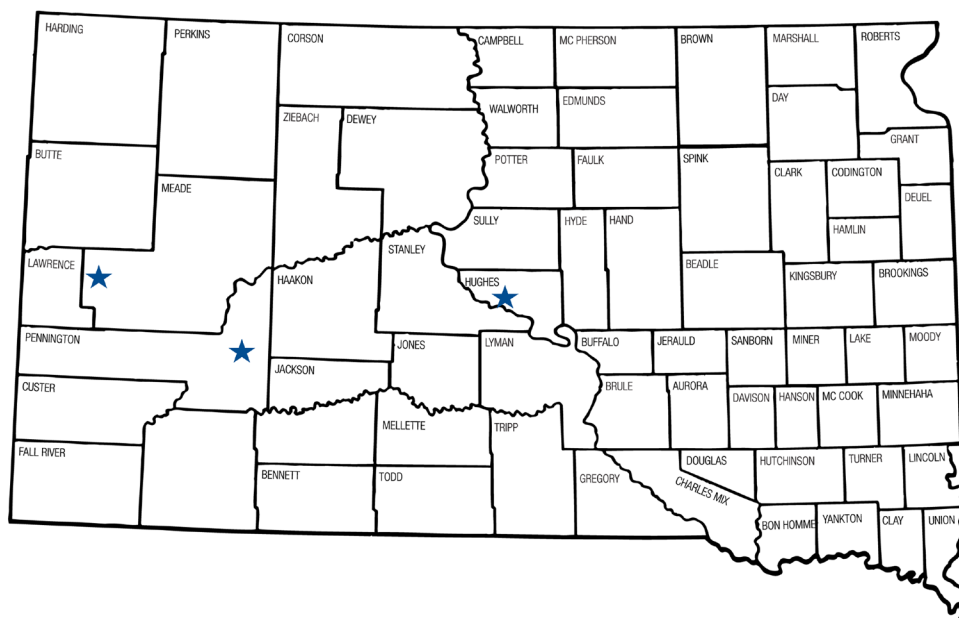
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Central trial locations: Pierre

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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2024 South Dakota Field Pea Variety Trial Results Variety List

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Table 1. List of field pea varieties tested in 2024 along with seed supplier and agronomic characteristics.

Variety	Seed Supplier	Seed Color	Seeds/lb
GTPC001	Gen Tech	Yellow	2100
GTPR002	Gen Tech	Yellow	2100
GTPR003	Gen Tech	Yellow	1950
GTPR004	Gen Tech	Yellow	2031
GTPR005	Gen Tech	Yellow	2000
GTPR006	Gen Tech	Yellow	2119
GTPR007	Gen Tech	Yellow	2095
Orchestra	Premier Genetics	Yellow	1752
PG Cash	Premier Genetics	Yellow	1800
PG Greenback	Premier Genetics	Green	1807
CDC Inca	Meridian Seeds	Yellow	1860
AAC Carver	Meridian Seeds	Yellow	2032
CDC Spectrum	Meridian Seeds	Yellow	1912
MS Growpro	Meridian Seeds	Yellow	1540
MS Prostar	Meridian Seeds	Yellow	2018
AAC Beyond	Meridian Seeds	Yellow	2190
MS22-G1	Meridian Seeds	Green	-
MS23-Y1	Meridian Seeds	Yellow	3070
AAC Chrome	Valesco	Yellow	1836
AAC Julius	Valesco	Yellow	2338
5206	Valesco	Yellow	1930
2822	Valesco	Yellow	1632
3513	Valesco	Yellow	-
Shamrock	Valesco	Green	2070
Lacross	Valesco	Yellow	1965



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Field Pea Variety Trial Results
Pierre (Dakota Lakes)**

Table 2. 2024 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	2024		2-Yr Average	
	Yield (bu/a)	Protein (%)	Yield (bu/a)	Protein (%)
2822	40	25.0	-	-
3513	45	23.7	-	-
5206	53	25.1	45	25.6
AAC Beyond	41	23.5	39	24.5
AAC Carver	42	21.7	40	23.7
AAC Chrome	41	23.4	36	24.4
AAC Julius	40	24.8	35	25.6
CDC Inca	52	24.7	44	25.1
CDC Spectrum	47	24.4	43	25.2
GTPC001	33	23.6	33	24.5
GTPR002	40	24.2	-	-
GTPR003	35	24.4	-	-
GTPR004	44	25.0	-	-
GTPR005	38	25.2	-	-
GTPR006	39	25.5	-	-
GTPR007	46	24.0	-	-
Lacross	37	22.9	-	-
MS Growpro	44	26.1	41	26.1
MS Prostar	40	24.9	38	24.8
MS22-G1	34	24.7	-	-
MS23-Y1	45	25.1	-	-
Orchestra	32	26.4	-	-
PG Cash	44	25.1	-	-
PG Greenback	52	23.9	-	-
Shamrock	40	23.7	36	24.7
Average	42	24.4	39	25.2
CV	17	2	-	-
LSD†	8	0.5	10.0	2.0

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