

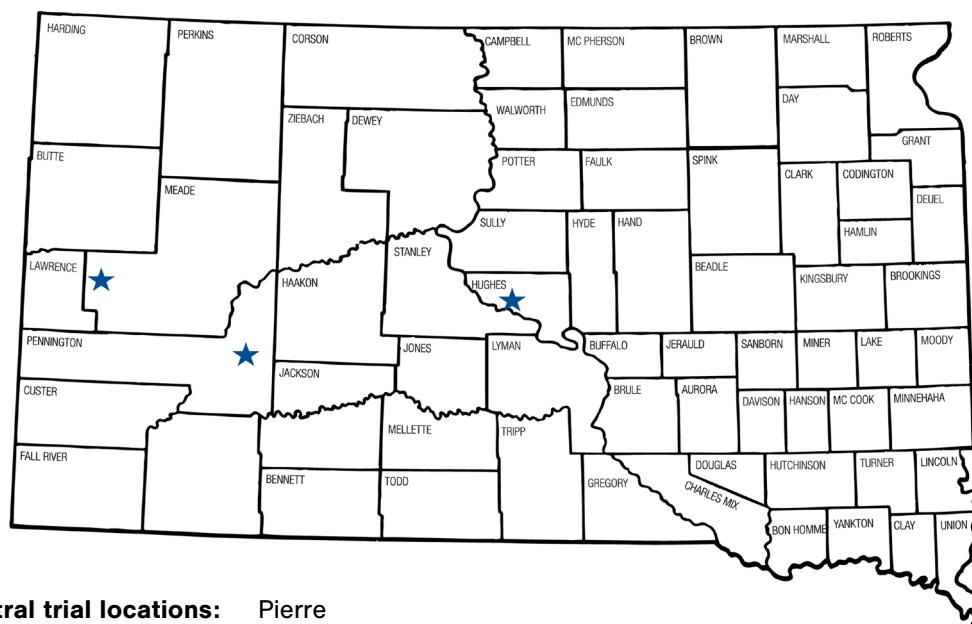


**SOUTH DAKOTA  
STATE UNIVERSITY**  
College of Agriculture, Food  
and Environmental Sciences

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

# 2024 South Dakota Field Pea Variety Trial Results Sturgis

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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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Sturgis (West River Research Farm)**

Table 2. 2024 field pea variety performance trial results in Sturgis, South Dakota. Varieties ranking in the top quartile of each trial category are bold and shaded light blue.

Variety	2024		2-Year Average		3-Year Average	
	Yield (bu/a)	Protein (%)	Yield (bu/a)	Protein (%)	Yield (bu/a)	Protein (%)
2822	23	28.2	-	-	-	-
3513	30	<b>28.6</b>	-	-	-	-
5206	<b>31</b>	<b>28.2</b>	53	26.3	-	-
AAC Beyond	<b>33</b>	27.4	62	25.6	-	-
AAC Carver	<b>31</b>	25.4	53	24.9	40	25.1
AAC Chrome	26	25.8	47	24.2	37	24.8
AAC Julius	27	<b>28.3</b>	46	27.3	34	27.3
CDC Inca	27	28.1	52	26.2	42	25.6
CDC Spectrum	27	28.0	55	24.9	39	26.1
GTPC001	25	26.6	50	26.3	-	-
GTPR002	26	<b>28.3</b>	48	24.8	-	-
GTPR003	23	27.8	-	-	-	-
GTPR004	25	<b>28.2</b>	-	-	-	-
GTPR005	25	<b>28.9</b>	-	-	-	-
GTPR006	24	28.0	-	-	-	-
GTPR007	26	<b>28.2</b>	-	-	-	-
Lacross	24	26.0	-	-	-	-
MS Growpro	28	<b>28.5</b>	52	26.9	40	27.6
MS Prostar	<b>34</b>	27.6	58	26.0	-	-
MS22-G1	24	27.5	-	-	-	-
MS23-Y1	<b>33</b>	27.8	-	-	-	-
Orchestra	<b>35</b>	27.9	-	-	-	-
PG Cash	<b>34</b>	27.2	-	-	-	-
PG Greenback	<b>31</b>	26.4	-	-	-	-
Shamrock	25	25.9	47	25	35	25.6
<b>Average</b>	28	27.6	52	25.7	38	26.0
<b>CV</b>	8	2	-	-	-	-
<b>LSD†</b>	3	0.6	10	2.0	NS	1.0

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