



**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 Field Pea Variety Trial Results Sturgis

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**Central trial locations:** Pierre

**Western trial locations:** Elm Springs, Sturgis

**Cultural Practices:**

Planting Rate: 350,000 viable seeds/ac

Inoculation: N-Charge granular inoculant

Herbicide: Select EC

**Acknowledgements:** Thanks to the South Dakota Pulse Council for funding these trials

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



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## 2021 South Dakota Field Pea Variety Trial Results Variety List

Table 1. List of field pea varieties tested in 2021 along with seed supplier and agronomic characteristics.

Variety	Seed Supplier	Seed Color	Seeds/lb	Germination (%)
AAC Asher	Legume Logic	Yellow	2215	94
AAC Carver	Meridian Seeds, LLC.	Yellow	1882	95
AAC Chrome	Valesco Genetics	Yellow	1747	91
AAC Profit	Valesco Genetics	Yellow	1918	89
CDC Greenwater	Meridian Seeds, LLC.	Green	1740	86
CDC Inca	Meridian Seeds, LLC.	Yellow	1688	83
CDC Saffron	Meridian Seeds, LLC.	Yellow	2048	95
CDC Spectrum	Meridian Seeds, LLC.	Yellow	1633	85
CDC Striker	Pulse USA, Inc.	Green	1988	95
Cronos	Valesco Genetics	Yellow	1548	85
DL Apollo	Pulse USA, Inc.	Yellow	2076	92
DL Grow Pro	Meridian Seeds, LLC.	Yellow	1491	91
DS-Admiral	Pulse USA, Inc.	Yellow	1804	94
Durwood	Pulse USA, Inc.	Yellow	1904	95
Empire	Valesco Genetics	Green	2054	91
Greenwood	Progene	Green	2402	91
Korando	Pulse USA, Inc.	Yellow	1946	94
LG Amigo	Pulse USA, Inc.	Yellow	2108	87
MS-19YP3	Meridian Seeds, LLC.	Yellow	1848	92
MS-20GP5	Meridian Seeds, LLC.	Green	1902	95
MS-20YP4	Meridian Seeds, LLC.	Yellow	1884	95
Nette 2010	Pulse USA, Inc.	Yellow	2067	94
Orchestra	Legume Logic	Yellow	1500	95
Salamanca	Valesco Genetics	Yellow	1968	92
Shamrock	Valesco Genetics	Green	1960	95
Spider	Valesco Genetics	Yellow	1994	85
Stunner	Pulse USA, Inc.	Yellow	2246	95
SW Arcadia	Pulse USA, Inc.	Green	2208	95
Viper	Pulse USA, Inc.	Green	1708	95



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Table 2. 2021 field pea variety performance trial results in Sturgis, South Dakota. Varieties ranking in the top third of each trial category are shaded light blue.

Variety	2021	
	Yield (bu/a)	Protein (%)
AAC Asher	22	25.9
AAC Carver	29	25.0
AAC Chrome	23	26.0
AAC Profit	23	26.7
Admiral	25	26.6
LG Amigo	23	26.9
SW Arcadia	20	25.6
CDC Greenwater	20	26.4
CDC Inca	25	27.5
CDC Saffron	21	26.4
CDC Spectrum	24	27.4
Cronos	23	26.8
DL Apollo	24	27.7
DL Grow Pro	25	28.0
Durwood	27	27.5
Empire	24	27.8
Greenwood	19	26.2
Korando	25	27.6
MS-19YP3	25	27.0
MS-20GP5	25	26.4
MS-20YP4	24	27.2
Nette 2010	23	26.1
Orchestra	22	27.6
Salamanca	26	27.0
Shamrock	26	26.8
Spider	25	27.0
Striker	25	27.9
Stunner	25	27.3
Viper	19	26.2
<b>Average</b>	24	26.8
<b>LSD†</b>	4.5	1.0
<b>CV‡</b>	11	2

† 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.



## 2021 South Dakota Field Pea Variety Trial Results Sturgis

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Table 3. Two-year average field pea variety performance trial results in Sturgis, South Dakota. Varieties ranking in the top third of each trial category are shaded light blue.

Variety	2020-2021	
	Yield (bu/a)	Protein (%)
AAC Asher	22	25.8
AAC Carver	29	25.0
AAC Chrome	23	25.3
AAC Profit	23	26.5
CDC Greenwater	25	26.1
CDC Inca	23	26.6
CDC Saffron	20	26.6
CDC Spectrum	20	26.8
CDC Striker	25	27.8
DL Apollo	21	28.1
DS-Admiral	24	25.8
Durwood	23	26.7
Empire	24	27.2
Greenwood	25	25.5
Korando	27	27.8
MS-19YP3	24	26.8
Nette	19	25.6
Orchestra	25	27.5
Salamanca	25	27.1
Shamrock	25	26.9
Spider	24	27.4
SW Arcadia	23	25.5
Viper	22	26.6
<b>Average</b>	30	26.6
<b>LSD†</b>	8.5	1.0
<b>CV‡</b>	-	-

† 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.