



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

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

# 2022 South Dakota Field Pea Variety Trial Results Sturgis

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**Central trial locations:** Pierre

**Western trial locations:** Wall (lost due to hail), Sturgis

**Cultural Practices:**

Planting Rate: 350,000 viable seeds/ac

Inoculation: N-Charge granular inoculant

Herbicide: Sulfentrazone

**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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## 2022 South Dakota Field Pea Variety Trial Results Variety List

Table 1. List of field pea varieties tested in 2022 along with seed supplier and agronomic characteristics.

Variety	Seed Supplier	Seed Color	Seeds/lb
AAC Chrome	Great Northern Ag.	Yellow	1747
AAC Julius	Great Northern Ag.	Yellow	2188
AAC Profit	Great Northern Ag.	Yellow	1918
Salamanca	Great Northern Ag.	Yellow	1968
Shamrock	Great Northern Ag.	Green	1960
AAC Asher	Legume Logic	Yellow	2215
AAC Carver	Meridian Seeds	Yellow	1882
CDC Inca	Meridian Seeds	Yellow	1688
CDC Saffron	Meridian Seeds	Yellow	2048
CDC Spectrum	Meridian Seeds	Yellow	1633
MS Grow Pro	Meridian Seeds	Yellow	1491
MS-20G1	Meridian Seeds	Green	1916
MS-20Y1	Meridian Seeds	Yellow	1980
MS-20Y3	Meridian Seeds	Yellow	1873
MS-22YP6	Meridian Seeds	Yellow	2296
Aragorn	Progene	Green	1853
Banner	Progene	Green	2204
Banner 18	Progene	Green	2609
Fairway	Progene	Green	2536
Ginny 2	Progene	Green	2131
Goldenwood	Progene	Yellow	3266
Greenwood	Progene	Green	2495
Hyline	Progene	Yellow	1740
Keystone	Progene	Green	3007
Pizzazz	Progene	Yellow	1965
Pro 173-7406	Progene	Yellow	2045
Pro 182-7137	Progene	Green	2594
Pro 143-6220	Progene	Yellow	2293
Pro 143-6230	Progene	Yellow	2132
Pro 141-6258	Progene	Green	2624
Pro 171-7665	Progene	Green	2270
Vail	Progene	Green	2508
DL Apollo	Pulse USA	Yellow	2076
DS-Admiral	Pulse USA	Yellow	1804
Durwood	Pulse USA	Yellow	1904
Flute	Pulse USA	Green	2066
Korando	Pulse USA	Yellow	1946
LG Amigo	Pulse USA	Yellow	2108
Stunner	Pulse USA	Yellow	2246
SW Arcadia	Pulse USA	Green	2208
Viper	Pulse USA	Green	1708
Hampton	USDA-ARS/Washington State	Green	2350
PS16100037	USDA-ARS/Washington State	Green	2130
PS17100008	USDA-ARS/Washington State	Yellow	2120
PS17100022	USDA-ARS/Washington State	Yellow	1890



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## 2022 South Dakota Field Pea Variety Trial Results Sturgis (West River Research Farm)

Table 2. 2022 field pea variety performance trial results in Sturgis, South Dakota. Varieties ranking in the top 1/3 of each trial category are bold and shaded light blue.

Variety	2022			
	Yield (bu/a)	95% Confidence Interval (bu/a)‡		Protein (%)
AAC Asher	9	5	13	25.8
AAC Carver	13	9	17	25.0
AAC Chrome	<b>15</b>	12	19	25.9
AAC Julius	12	8	16	27.2
AAC Profit	<b>19</b>	15	23	<b>27.8</b>
Aragorn	11	7	15	26.3
Arcadia	10	6	14	25.6
Banner	6	3	12	23.6
Banner 18	8	4	11	22.2
CDC Inca	<b>16</b>	12	19	<b>27.3</b>
CDC Saffron	<b>14</b>	10	18	26.8
CDC Spectrum	<b>17</b>	13	21	25.7
DL Apollo	13	10	17	<b>28.7</b>
DS Admiral	12	8	16	25.7
Durwood	<b>22</b>	18	26	27.1
Fairway	11	8	15	26.2
Flute	<b>17</b>	13	21	28.1
Ginny 2	<b>15</b>	11	19	25.9
Goldenwood	<b>18</b>	14	22	<b>28.4</b>
Greenwood	11	7	15	25.0
Hampton	10	6	14	27.1
Hyline	12	8	16	26.0
Keystone	11	7	15	26.5
Korando	<b>14</b>	11	18	27.0
LG Amigo	6	2	9	25.5
MS GrowPro	<b>14</b>	13	22	<b>27.3</b>
MS-20G1	<b>15</b>	12	19	<b>27.8</b>
MS-20Y1	11	8	15	<b>27.9</b>
MS20-Y3	13	9	17	<b>27.7</b>
MS22-YP6	12	8	16	<b>27.6</b>
Orchestra	8	4	12	<b>27.9</b>
Pizzazz	13	9	17	<b>27.4</b>
Pro 143-6220	11	7	15	26.8
Pro 143-6230	11	7	16	26.8

† Value required (≥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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	Yield (bu/a)	95% Confidence Interval (bu/a)‡		Protein (%)
Pro 171-7665	12	8	15	26.3
Pro 173-7406	11	8	15	25.5
Pro 174-6258	12	8	15	26.2
Pro 182-7137	<b>16</b>	12	20	<b>28.0</b>
PS16100037	10	6	14	27.2
PS17100008	8	3	12	26.1
PS17100022	9	5	14	<b>27.7</b>
Salamanca	<b>21</b>	17	25	<b>28.1</b>
Shamrock	11	7	15	26.8
Stunner	7	3	11	26.9
Vail	<b>16</b>	12	20	26.4
Viper	13	9	17	27.2
<b>Average</b>	13	-	-	26.7
<b>LSD†</b>	4	-	-	0.8

† 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.