



2020 South Dakota Field Pea Variety Trial Results Sturgis

Christopher Graham | SDSU Extension Agronomist

Bruce Swan | Agricultural Research Manager

Sharla Kesterson | SDSU Research Technician

Central trial locations: Blunt (lost to hail), Pierre (Dakota Lakes)

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>

Table 1. List of field pea varieties tested in 2020 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 Comfort	Meridian Seeds, LLC.	Green	1610	86
AAC Profit	Valesco Genetics	Yellow	1918	89
AC Agassiz	Meridian Seeds, LLC.	Yellow	1890	91
AC Earlystar	Meridian Seeds, LLC.	Yellow	2345	97
CDC Amarillo	Meridian Seeds, LLC.	Yellow	2224	93
CDC Dakota	Legume Logic	Yellow	2093	95
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
DL Apollo	Pulse USA, Inc.	Yellow	2076	92
DS-Admiral	Pulse USA, Inc.	Yellow	1804	94
Durwood	Pulse USA, Inc.	Yellow	1904	95
Empire	Valesco Genetics	Green	2054	91
Fairyway	Progene	Green	2719	91
Ginny 2	Progene	Green	2259	91
Goldenwood	Progene	Green	2403	91
Greenwood	Progene	Green	2402	91
Hyline	Valesco Genetics	Yellow	1822	95
Jetset	Meridian Seeds, LLC.	Yellow	1840	95
Keystone	Progene	Green	3290	92
Korando	Pulse USA, Inc.	Yellow	1946	94
LG Amigo	Pulse USA, Inc.	Yellow	2108	87
LG Koda	Pulse USA, Inc.	Green	2226	93
LG Sunrise	Pulse USA, Inc.	Yellow	2224	90
Majestic	Legume Logic	Yellow	1888	88
Mystique	Pulse USA, Inc.	Yellow	1735	90
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
SW Arcadia	Pulse USA, Inc.	Green	2208	95
SW Midas	Pulse USA, Inc.	Yellow	2286	93
Viper	Pulse USA, Inc.	Green	1708	95

Table 2. 2020 field pea variety performance trial results in Sturgis, South Dakota. Varieties ranking in the top 1/3 of each trial category are shaded light blue.

Variety	2020	
	Yield (bu/a)	Protein %
AAC Asher	36	25.7
AAC Carver	40	24.9
AAC Chrome	44	24.7
AAC Comfort	43	26.1
AAC Profit	39	26.3
AC Agassiz	40	25.7
AC Earlstar	46	24.8
Bastion	34	26.9
CDC Amarillo	45	26.1
CDC Dakota	51	28.0
CDC Greenwater	37	25.7
CDC Inca	39	25.6
CDC Saffron	38	26.6
CDC Spectrum	43	26.3
CDC Striker	25	27.7
Daytona	42	25.8
DL Apollo	30	28.1
DS-Admiral	27	25.2
Durwood	35	26.0
Empire	33	26.8
Fairway	37	26.1
Ginny 2	38	26.3
Goldenwood	34	26.2
Greenwood	32	25.0
Hyline	33	25.4
Jetset	47	26.9
Korando	51	28.1
LG Amigo	29	26.3
LG Koda	36	25.4
LG Sunrise	41	25.2
Majestic	47	26.6
MS-19YP3	47	26.5
Mystique	46	26.0
Nette 2010	32	25.1
Orchestra	35	27.4
Salamanca	43	27.1
Shamrock	36	26.8
Spider	38	27.7
SW Arcadia	40	25.4
SW Midas	30	25.6
Viper	24	26.8
Average#	38	26.2
LSD†	14	1.4
CV‡	24	3

Trial averages may include values from experimental lines that are not reported.

† 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.