



# 2019 South Dakota Field Pea Variety Trial Results Elm Springs, SD

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**Central trial locations:**

Harrold (lost to excess rain at harvest), Pierre, Selby

**Western trial locations:**

Elm Springs, Sturgis (lost to hail)

**Individual trial location results can be  
accessed online at:**

<https://extension.sdstate.edu/field-pea-variety-trial-results>

**Acknowledgements:**

Thanks to the South Dakota Pulse Council for funding these trials and Mr. Tyrel Eisenbraun for hosting this trial.

Table 1. List of field pea varieties tested in 2019 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
Aragorn	Progene	Green	1740	94
Astronaut	Legume Logic	Yellow	1767	96
Bluemoon	Legume Logic	Green	1848	95
Bridger	Valesco Genetics	Yellow	2179	90
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
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
Navarro	Valesco Genetics	Yellow	1702	87
Nette 2010	Pulse USA, Inc.	Yellow	2067	94
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. 2019 field pea variety performance trial results for testing site in Elm Springs, South Dakota. Only one year of data is available for this location. Varieties ranking in the top 1/3 of each trial category are shaded light blue.

Variety	2019		
	Yield (bu/a)	Test Wt (lbs)	Protein (%)
AAC Asher	26	60.8	20.2
AAC Carver	27	56.5	18.0
AAC Chrome	34	54.3	20.5
AAC Comfort	23	55.3	21.0
AAC Profit	28	55.1	21.4
AC Agassiz	25	53.5	20.9
AC Earlystar	27	55.6	19.9
Aragorn	21	48.4	21.6
Arcadia	23	50.7	20.9
Astronaute	28	56.7	23.3
Blumoon	23	53.0	21.3
Bridger	19	46.1	21.3
CDC Amarillo	24	54.5	21.5
CDC Dakota	29	60.5	24.1
CDC Greenwater	22	53.9	21.4
CDC Inca	30	56.1	22.5
CDC Saffron	27	58.0	20.7
CDC Spectrum	28	54.4	22.3
CDC Striker	21	52.7	23.0
DL Apollo	20	52.3	22.0
DS-Admiral	27	58.4	21.9
Durwood	22	55.2	22.6
Empire	20	53.3	22.5
Greenwood	20	48.1	19.7
Hyline	27	58.9	21.5
Jetset	23	57.4	21.9
Keystone	16	57.0	23.3
Korando	20	48.6	24.2
LG Amigo	14	46.5	22.3
LG Koda	23	59.4	19.9
LG Sunrise	19	48.5	19.8
Majestic	21	55.3	23.5
Midas	16	46.0	21.1
Mystique	26	58.5	23.2
Navarro	18	50.4	23.9
Nette 2010	17	45.1	20.1
Salamanca	20	59.1	22.2
Shamrock	22	48.0	22.3
Spider	15	39.1	22.0
Viper	17	51.4	22.6
Trial Average#	23	53.4	21.7
LSD(0.05)†	8	9.6	1.6
C.V.%‡	22	9	5

# 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 acceptable.