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SOUTH DAKOTA STATE UNIVERSITY®  
AGRONOMY, HORTICULTURE, & PLANT SCIENCE DEPARTMENT

# 2019 South Dakota Field Pea Variety Trial Results Combined Results

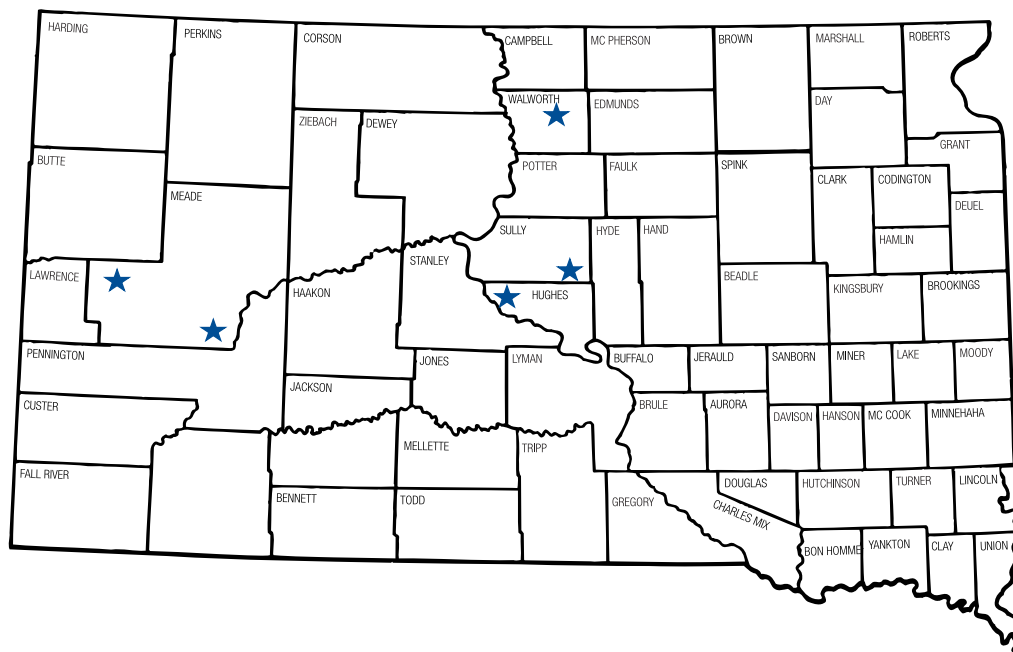
Jonathan Kleinjan | SDSU Extension Crop Production Associate

Christopher Graham | SDSU Extension Agronomist

Bruce Swan | Agricultural Research Manager

Kevin Kirby | Agricultural Research Manager

Shawn Hawks | Agricultural Research Manager



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.

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 all testing sites in South Dakota. 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	37	58.1	22.9
AAC Carver	40	58.3	20.9
AAC Chrome	41	57.9	22.3
AAC Comfort	40	57.2	23.4
AAC Profit	44	57.4	24.0
AC Agassiz	36	56.0	23.6
AC Earliestar	38	56.0	21.7
Aragorn	30	54.8	24.2
Arcadia	38	58.0	25.0
Astronoute	37	57.4	23.5
Blumoon	33	54.7	23.9
Bridger	37	58.0	23.4
CDC Amarillo	42	59.2	25.2
CDC Dakota	33	55.3	22.8
CDC Greenwater	41	58.5	24.6
CDC Inca	38	57.4	23.3
CDC Saffron	38	58.1	24.5
CDC Spectrum	34	56.3	25.5
CDC Striker	36	57.4	25.3
DL Apollo	36	59.5	23.4
DS-Admiral	36	59.1	24.5
Durwood	32	57.4	24.0
Empire	31	55.6	22.0
Greenwood	38	57.4	23.2
Hyline	34	57.7	24.3
Jetset	30	57.0	24.4
Keystone	34	55.9	25.8
Korando	28	57.9	24.6
LG Amigo	33	57.5	22.4
LG Koda	33	55.5	22.2
LG Sunrise	38	55.3	24.9
Majestic	36	58.4	24.6
Midas	33	57.0	24.7
Mystique	30	54.3	22.4
Navarro	36	57.5	25.1
Nette 2010	35	54.8	24.1
Salamanca	31	55.6	24.5
Shamrock	35	55.3	22.2
Spider	28	55.5	23.1
Viper	29	56.8	25.0
Trial Average#	35	56.9	23.8
LSD(0.05)†	6	3.6	0.8
C.V.%‡	-	-	-

# 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.