



# 2019 South Dakota Field Pea Variety Trial Results Pierre, 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:

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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. 2016-2019 field pea variety performance trial results for testing sites in Pierre (Dakota Lakes), South Dakota. Varieties ranking in the top 1/3 of each trial category are shaded light blue.

Variety	2019			2018	2016	2-year	3-year
	Yield (bu/a)	Test Wt (lbs)	Protein (%)	Yield (bu/a)	Yield (bu/a)	Yield (bu/a)	Yield (bu/a)
AAC Asher	39	57.4	24.0	55	-	47	-
AAC Carver	50	58.1	22.1	45	45	47	47
AAC Chrome	38	58.9	22.9	47	-	42	-
AAC Comfort	43	58.2	24.5	39	-	41	-
AAC Profit	47	57.5	25.0	51	-	49	-
AC Agassiz	40	54.4	25.2	47	49	44	46
AC Earlystar	46	55.4	22.5	-	-	-	-
Aragorn	37	57.6	24.9	-	-	-	-
Arcadia	46	54.7	22.1	40	37	43	41
Astronaute	44	57.3	24.8	-	-	-	-
Bluemoon	49	58.6	24.4	46	44	47	46
Bridger	43	57.6	24.7	45	44	44	44
CDC Amarillo	39	58.1	24.8	44	47	41	43
CDC Dakota	45	57.3	26.1	48	-	46	-
CDC Greenwater	30	52.5	22.9	41	-	36	-
CDC Inca	42	58.1	25.4	46	-	44	-
CDC Saffron	41	55.8	24.3	46	47	43	44
CDC Spectrum	34	58.7	26.0	41	-	37	-
CDC Striker	45	55.8	26.7	41	39	43	42
DL Apollo	42	56.5	25.3	-	-	-	-
DS-Admiral	42	57.5	23.9	47	45	45	45
Durwood	39	58.8	25.0	43	47	41	43
Empire	38	54.1	25.1	39	-	39	39
Greenwood	42	55.1	23.0	-	-	-	-
Hyline	45	55.8	23.1	43	47	44	45
Jetset	45	57.3	24.3	42	44	43	44
Keystone	33	59.1	25.1	-	-	-	-
Korando	46	58.3	26.1	46	44	46	45
LG Amigo	35	59.9	25.4	40	-	38	-
LG Koda	36	55.2	22.9	41	-	38	-
LG Sunrise	39	55.2	22.8	47	-	43	-
Majestic	48	56.5	25.7	43	43	46	45
Midas	39	56.9	22.2	43	40	41	41
Mystique	40	58.2	24.9	46	48	43	45
Navarro	44	59.0	23.7	40	40	42	41
Nette 2010	39	55.3	23.5	48	48	44	45
Salamanca	42	55.2	25.6	46	47	44	45
Shamrock	46	57.0	24.8	35	-	41	-
Spider	37	57.5	25.7	50	47	44	45
Viper	38	57.0	25.5	35	38	37	37
Trial Average#	41	56.9	24.4	44	41	43	43
LSD(0.05)†	11	3.8	0.8	3	4	-	-
C.V.%‡	17	6	2	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.