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

2019 South Dakota Field Pea Variety Trial Results Selby, 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. Mark Stiegelmeier 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. 2017-2019 field pea variety performance trial results for testing sites in Selby, South Dakota. Varieties ranking in the top 1/3 of each trial category are shaded light blue.

Variety	2019			2018	2017	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	46	58.1	24.6	68	-	57	-
AAC Carver	44	60.2	22.8	63	32	54	47
AAC Chrome	52	60.6	23.5	-	-	-	-
AAC Comfort	53	58.9	24.6	63	-	58	-
AAC Profit	56	59.7	25.5	60	-	58	-
AC Agassiz	43	60.2	24.7	60	32	52	45
AC Earlystar	42	57.0	22.9	-	-	-	-
Aragorn	30	57.2	26.1	-	-	-	-
Arcadia	37	60.4	23.7	55	32	46	41
Astronaut	42	59.9	26.9	-	-	-	-
Blumoon	41	60.1	24.8	51	27	46	40
Bridger	37	58.1	25.6	51	28	44	39
CDC Amarillo	49	60.2	24.0	57	35	53	47
CDC Dakota	50	60.8	25.5	62	-	56	-
CDC Greenwater	48	60.1	24.1	61	-	54	-
CDC Inca	51	61.2	25.9	68	29	60	50
CDC Saffron	45	58.3	25.0	69	29	57	48
CDC Spectrum	49	60.2	25.3	60	-	55	-
CDC Striker	36	59.1	26.8	49	22	43	36
DL Apollo	44	62.0	28.4	-	-	-	-
DS-Admiral	38	61.6	24.5	52	34	45	41
Durwood	47	62.2	25.8	48	33	48	43
Empire	38	63.5	24.4	39	-	38	-
Ginny	43	59.3	25.1	50	30	47	41
Greenwood	30	60.2	23.2	-	-	-	-
Hyline	41	57.8	24.8	62	34	51	46
Jetset	34	58.5	26.6	52	33	43	40
Keystone	40	56.4	24.8	46	-	43	-
Korando	37	59.3	27.1	52	34	45	41
LG Amigo	35	60.8	26.2	54	34	44	41
LG Koda	41	58.9	24.4	56	36	49	44
LG Sunrise	42	60.1	23.9	52	-	47	-
Majestic	45	55.1	25.6	44	29	44	39
Midas	31	57.9	25.2	56	32	43	40
Mystique	42	58.3	25.7	47	36	44	42
Navarro	39	59.7	26.5	45	35	42	40
Nette 2010	33	59.9	23.4	52	34	42	40
Salamanca	47	59.5	27.5	41	32	44	40
Shamrock	37	59.5	25.3	46	27	41	37
Spider	41	59.1	25.8	70	30	55	47
Viper	31	59.5	26.7	48	29	39	36
Trial Average#	42	59.5	25.2	54	31	48	42
LSD(0.05)†	3	2.0	0.8	5	4	-	-
C.V.%‡	5	2	2	6	-	-	-

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.