

2019 Pea Variety Trial in Cheyenne Co._Rainfed (1901)

Planting Date: April 5, 2019

Harvest Date: July 30, 2019

Brand	Variety	Entry	Yield rank	*Yield (bu/a)	Test wt (lbs/bu)	Flowering 50% (DAP)	Height (inch)	Physiological Maturity (DAP)	Seed protein %
Photosyntech	PST SPS 38	44	1	33	59.9	76	16	110	25.88
Pulse USA	DS-Admiral	14	2	28	60.7	74	23	109	25.52
Meridian Seeds	CDC Saffron	9	3	26	59.3	76	21	109	24.71
Pulse USA	LG Sunrise	18	4	25	58.1	76	18	110	25.56
Puris Foods	PP-EXP-1948	23	5	24	59.1	78	16	109	24.39
Valesco Genetics	Spider	29	6	24	58.0	76	23	111	26.04
Photosyntech	PST SPS 31	41	7	24	59.4	77	22	111	25.51
Photosyntech	PST SP 34	42	8	22	60.3	76	21	108	24.58
Photosyntech	PST SPS 37	43	9	22	56.7	78	20	112	28.38
Photosyntech	PST SP 27	40	10	22	59.9	76	21	110	26.91
Pulse USA	SW Midas	20	11	21	59.6	78	17	110	25.26
Puris Foods	PP-EXP-1932	22	12	21	59.9	77	20	111	26.32
Meridian Seeds	CDC Inca	10	13	21	58.8	77	20	109	26.59
Meridian Seeds	AAC Carver	5	14	21	60.9	76	22	109	23.92
Meridian Seeds	CDC Amarillo	8	15	21	62.9	77	20	109	24.68
Pulse USA	DL Apollo	13	16	20	59.4	75	20	110	26.10
Valesco Genetics	Bridger	25	17	20	61.5	75	21	109	25.83
Pulse USA	Durwood	15	18	20	58.6	77	22	112	26.29
Meridian Seeds	CDC Greenwater ¥	4	19	20	60.8	78	20	110	25.58
Meridian Seeds	AC Earlystar	7	20	19	58.6	77	18	109	24.31
Valesco Genetics	Salamanca	28	21	19	59.9	77	21	110	26.36
Meridian Seeds	AC Agassiz	6	22	18	60.4	76	20	110	25.51
Meridian Seeds	Jetset	12	23	18	58.6	76	19	111	25.34
Valesco Genetics	AAC Profit	24	24	17	60.7	77	22	110	25.38
Montana Integrity	Polancos	39	25	17	59.2	78	22	111	24.44
Arrowseed	Montech 4152	2	26	17	60.8	76	20	109	25.68
Arrowseed	Montech 4193	1	27	16	60.2	77	20	109	24.34
Pulse USA	Nette 2010	19	28	16	59.6	76	19	110	24.50
Average of all varieties				21	57.0	76	20	110	25.55
Difference (LSD) required at 5% sig.				6	5.5	2	5	2	1.29
CV				22	7	2	16	1	4

¥ Green pea

*Yield @13% moisture

1 bu=60 lbs

DAP=Days After Planting

LSD: Values required (≥ LSD) to determine if varieties are significantly different from one another

CV: 15 is generally acceptable value. **Data should be used carefully as trial CV>15.**

Trial information:

- 1 Location: Sidney in Cheyenne Co.
- 2 Planted on no-till ground on millet stubble
- 3 Herbicide: Sharpen and glyphosate
- 4 Seeding rate: 350,000 live seeds/acre
- 5 Seeds were inoculated with granular pea inoculum at the time of planting
- 6 Plot: 5 ft x 30 ft (6 rows with 10" row spacing)
- 7 Yield was impacted from two hail storms (May and June), one tornado (June), and row spacing issue at planting.