

# 2019 Pea Variety Trial in Perkins Co. \_Rainfed (1903)

Planting Date: April 6, 2019

Harvest Date: July 29, 2019

Brand/Company	Variety	Entry '19	Yld. Rank	*Yield (bu/a)	Test wt (lbs/bu)	Flowering 50% (DAP)	Height (inch)	Physiological Maturity (DAP)	Seed protein %
Legume Logic	CDC Dakota	32	1	33	59.0	73	23	97	25.50
Montana Integrity	Polancos	39	2	30	59.0	72	24	98	22.53
Photosyntech	PST SPS 31	41	3	28	58.3	70	20	99	23.69
Legume Logic	AAC Chrome	31	4	27	58.5	71	16	97	23.29
Meridian Seeds	CDC Spectrum	11	5	27	56.8	72	19	97	24.80
Pulse USA	DS-Admiral	14	6	26	57.7	69	21	96	24.60
Pulse USA	SW Midas	20	7	26	58.3	71	16	97	23.44
Valesco Genetics	AAC Profit	24	8	26	59.4	73	19	99	25.52
Pulse USA	Nette 2010	19	9	26	59.3	68	20	96	23.65
Meridian Seeds	CDC Saffron	9	10	25	58.2	71	18	97	22.68
Meridian Seeds	AC Agassiz	6	11	25	59.9	70	19	98	25.27
Valesco Genetics	Salamanca	28	12	25	59.4	70	19	96	25.98
Valesco Genetics	Spider	29	13	25	61.3	71	19	98	24.51
Meridian Seeds	AAC Comfort¥	3	14	25	59.7	74	19	100	24.46
Pulse USA	Durwood	15	15	24	60.1	69	21	97	24.83
Meridian Seeds	CDC Greenwater¥	4	16	23	57.7	73	17	101	24.28
Pulse USA	LGPN 4915	21	17	22	59.3	69	19	95	23.87
Meridian Seeds	AAC Carver	5	18	22	57.0	70	21	97	22.68
Arrowseed	Montech 4193	1	19	22	56.4	70	17	96	23.99
Pulse USA	LG Sunrise	18	20	22	59.5	68	19	96	23.44
Legume Logic	Astranaut	33	21	21	56.7	70	16	96	23.01
Valesco Genetics	Hyline	26	22	21	57.2	70	16	97	22.07
Meridian Seeds	AC Earlystar	7	23	20	57.4	71	18	95	24.03
Legume Logic	Majestic	34	24	20	58.8	71	21	98	25.06
Pulse USA	DL Apollo	13	25	20	60.4	70	19	97	25.56
Meridian Seeds	CDC Amarillo	8	26	19	57.8	72	19	99	25.58
ProGene Plant Res.	Pro 093-7410	37	27	19	59.3	69	17	98	23.86
Valesco Genetics	Bridger	25	28	19	58.5	68	16	94	22.98
ProGene Plant Res.	Pro 121-7126	35	29	19	60.9	70	15	96	24.38
Photosyntech	PST SPS 37	43	30	19	58.5	72	19	99	25.04
Photosyntech	PST SPS 38	44	31	19	59.6	69	19	97	24.30
ProGene Plant Res.	Pro 143-6230	38	32	18	58.8	70	18	96	25.19
Photosyntech	PST SP 27	40	33	18	57.3	68	17	95	24.21
Photosyntech	PST SP 34	42	34	18	57.6	70	18	94	23.83
Pulse USA	Korando	16	35	18	55.9	68	15	95	25.44
Legume Logic	AAC Asher	30	36	17	56.9	72	17	97	23.08
Meridian Seeds	Jetset	12	37	17	59.0	69	18	95	24.03
Meridian Seeds	CDC Inca	10	38	17	58.6	72	18	97	23.86
Pulse USA	LG Amigo	17	39	17	58.0	69	17	96	24.96
Arrowseed	Montech 4152	2	40	16	56.9	69	16	97	25.55
Valesco Genetics	Navarro	27	41	15	58.8	67	15	97	25.48
ProGene Plant Res.	Pro 133-6243	36	42	14	56.6	68	16	95	24.21
<b>Average of all varieties</b>				<b>22</b>	<b>58.0</b>	<b>70</b>	<b>18</b>	<b>97</b>	<b>24.25</b>
<b>Difference (LSD) required at 5% sig.</b>				<b>7</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>2</b>	<b>1.00</b>
<b>CV</b>				<b>22</b>	<b>3</b>	<b>1</b>	<b>16</b>	<b>1</b>	<b>3</b>

¥ 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 Trial location: Grant in Perkins Co.
- 2 Trial was planted on no-till ground on wheat stubble
- 3 Herbicide: Buccaneer 5, Blanket (Spartan), Brawl II (Dual II), AMS
- 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 Field was very wet at planting followed by severe rain after emergence. First tier had bad stand.