

2025 Nebraska Winter Pea Variety Trial in Cheyenne Co. _Rainfed

Planting Date: Sep. 19, 2024 Harvest Date: July 28, 2025

Yield @12% moisture

1=early 4 1=excellent
late 10=worst

Brand	Variety	Yield rank	Yield (lbs/acre)	Yield (bu/acre)	Test wt (lbs/bu)	Flowering date	Plant height @ harvest	Seed protein (%) db	1000 seed wt (g)	Physiol. maturity (1-4)	Overall score (1-10)	Stand (%)	Moist. (%)
USDA-ARS	PS11300240W	1	1516	25	58	5-Jun	18	27	122	3	5	87	15
MSU	MTP 190820	2	1454	24	56	5-Jun	16	29	126	3	6	80	15
MSU	MTP 191029	3	1417	24	56	6-Jun	17	29	121	3	7	80	14
MSU	MTP 190887	4	1322	22	56	7-Jun	19	28	124	3	5	87	15
ProGene	Pro 144-7211	5	1294	22	60	8-Jun	14	27	148	2	5	73	15
ProGene	Blaze	6	1259	21	56	4-Jun	15	28	154	2	6	67	16
Valesco	Winterberry	7	1250	21	59	2-Jun	16	27	168	1	6	70	14
MSU	MTP 190767	8	1234	21	56	7-Jun	16	27	134	2	6	90	14
ProGene	Pro 172-7107	9	1225	20	57	6-Jun	17	28	149	4	7	58	16
USDA-ARS	PS1634C0011W	10	1196	20	57	5-Jun	15	28	124	1	4	73	15
ProGene	Payback	11	1191	20	56	5-Jun	14	27	155	2	5	73	15
MSU	MTP 190821	12	1178	20	55	4-Jun	13	28	132	2	5	80	14
MSU	Windham	13	1148	19	56	6-Jun	12	27	117	2	6	93	14
ProGene	Goldenwood	14	1109	18	56	5-Jun	15	28	151	2	7	53	15
MSU	MTP 190753	15	1105	18	56	6-Jun	17	28	143	3	6	65	14
MSU	MTP 190822	16	970	16	56	7-Jun	18	29	117	3	6	77	16
ProGene	Vail	17	876	15	55	6-Jun	15	27	125	3	8	48	14
MSU	Specter	18	732	12	42	7-Jun	18	28	111	2	6	67	13
ProGene	Kurtwood	19	639	11	52	5-Jun	17	27	162	3	7	37	14
ProGene	Keystone	20	594	10	41	5-Jun	14	27	145	2	7	33	14
USDA-ARS	PS17340612W	21	483	8	39	9-Jun	11	27	138	5	7	67	12
USDA-ARS	USDA Klondike	22	371	6	32	7-Jun	9	27	141	2	8	27	14
Average of all varieties			1071	18	52	6-Jun	15	28	137	2	6	67	14
Difference (LSD) required at 5% sig.			345	6	8	1	4	1	8	1	2	20	2
CV			22	22	11	13	19	2	4	16	19	20	9

Trial Notes

LSD: Two varieties are significantly different from each other if the difference between them is equal or more than LSD

CV: 15 is generally acceptable value. When CV>15, the data is of poor quality and should not be considered

Summary: Yield was very lower than average due to winter kill and CV was >15 due to extreme variability in winter survival as noticed in % of stand.

Trial information:

Location: High Plains Ag. Lab, 3257 Road 109, Sidney, NE 69162

Planted on tilled-till ground

Herbicide: Sonolan and round-up

Seeding rate: 350,000 live seeds/acre

Seeds were inoculated with granular pea inoculum at the time of planting

Plot: 5 ft x 30 ft (6 rows with 10" row spacing)

