

2022 Nebraska Winter Pea Variety Trial in Perkins Co. _ Rainfed

Planting Date: September 20, 2021 Harvest Date: July 22, 2022

Brand	Variety	Entry	Yield rank	Yield (lbs/acre)	Yield (bu/acre)	Seed protein % (dry basis)	1000 seed wt (g)	Flowering date	Plant ht (inch)	Spring stand (%)
ProGene	Blaze	3	1	696	12	27	162	6-Jun	8	40
Seed Ranch	Windham	14	2	651	11	27	145	5-Jun	9	47
ProGene	Pro 174-7148	5	3	538	9	28	167	2-Jun	9	23
ProGene	Pro 144-7211	6	4	451	8	26	151	8-Jun	9	33
ProGene	184-7148	9	5	360	6	26	168	5-Jun	8	20
ProGene	Pro 164-7117	4	6	336	6	26	155	4-Jun	9	33
Meridian	MS-20W3	13	7	322	5	28	168	29-May	8	23
ProGene	182-7137	8	8	291	5	27	168	7-Jun	8	12
ProGene	Pro 154-7225	7	9	277	5	29	146	6-Jun	8	22
Seed Ranch	Aust. winter pea	15	10	270	5	30	120	5-Jun	9	33
Meridian	MS-20W2	12	11	252	4	27	181	28-May	7	27
ProGene	Goldenwood	2	12	240	4	28	162	7-Jun	9	17
Meridian	MS-20W1L	11	13	167	3	29	192	27-May	9	23
ProGene	Vail	1	14	146	2	27	160	7-Jun	8	7
Average of all varieties				357	6	28	161	2-Jun	9	26
Difference (LSD) required at 5% sig.				216	4	1	13	3	2	22
CV				26	26	2	4	1	17	31

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 low due to winter kill and CV was > 15 due to extreme variability in winter survival as noticed in % of stand.

Conclusion: This is 1st year of the trial. Considering dry fall in 2021 winter survival of several varieties was good although yield was poor.

Trial information:

Location: Stumpf Int'l Wheat Research Center in Perkins Co. (N.40.849318, W. -101.705806)

Planted on no-till ground on corn stubble

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)