

2018 Pea Variety Trial at Mead (Saunders Co.)_Dryland

Planting dates: Yellow peas (04/05/2018), Green peas (03/30/2018), Lentils (03/30/2018), Chickpeas (04/12/2018)

Harvest dates: Yellow peas and Green peas (07/12/2018), Lentils (07/20/2018), Chickpeas (08/13/2018)

Variety	Brand	Yield rank	Yield (bu/ac)*	Yield (lbs/ac)	Test wt (lbs/bu)	50% bloom (DAP)*	Flowering rating	Maturity (1-10)*	Plant height (inches)	Moisture at harvest (%)
Yellow Peas										
Agassiz	Meridian Seed	1	48	2893	62.9	58	Early	8	20.1	13.7
AAC Profit	Great Northern Ag	2	45	2696	60.8	60	Late	6	27.6	23.2
Jetset	Meridian Seed	3	44	2637	63.7	58	Early	10	24	12.7
AC Earlystar	Meridian Seed	4	42	2516	59.7	58	Early	8	24.3	14.1
CDC Inca	Meridian Seed	5	42	2493	62.8	60	Late	6	21.3	15.8
Hyline	Great Northern Ag	6	41	2468	60.4	59	Mid	7	24.9	19.3
AAC Carver	Meridian Seed	7	41	2459	62	58	Mid	7	27.6	14.8
Spider	Great Northern Ag	8	41	2452	62.8	59	Mid	7	24.9	15.1
CDC Saffron	Meridian Seed	9	41	2445	63.9	59	Mid	8	23.7	15.5
Montech 4193	Arrow Seed	10	38	2303	62.4	57	Early	8	21	13.3
SW Midas	Pulse USA	11	37	2231	62.8	58	Mid	9	19.2	13.2
LG Sunrise	Pulse USA	12	37	2210	59.5	57	Early	4	27.6	19.9
Polancos	Montana Integrity	13	37	2207	64	60	Late	8	29.4	13.7
Montech 4152	Arrow Seed	14	36	2181	62.3	58	Mid	7	23.7	15.5
DS-Admiral	Pulse USA	15	36	2137	62.7	57	Early	10	21.6	12.7
CDC Amarillo	Meridian Seed	16	36	2135	59.4	60	Late	5	27.6	22.7
Nette 2010	Pulse USA	17	36	2133	62.6	57	Early	10	18.9	12.2
CDC Spectrum	Meridian Seed	18	35	2084	58.7	60	Late	3	29.4	24.8
Bridger	Great Northern Ag	19	35	2084	63	57	Early	8	23.1	14.6
Navarro	Great Northern Ag	20	34	2063	62.3	56	Early	6	25.5	14.8
Salamanca	Great Northern Ag	21	34	2027	62.4	59	Mid	7	29.4	15.9
LG Amigo	Pulse USA	22	33	2001	62.1	58	Mid	5	26.1	16.4
Partner	NS Seed	23	28	1693	48.7	58	Mid	8	22.8	14.2
Durwood	Pulse USA	24	26	1555	61.7	58	Mid	6	30.9	16.6
Dukat	NS Seed	25	22	1318	62.8	56	Early	10	12.3	13.5
Average of all Varieties			37	2217	61.4	58	Mid	7	24.3	15.9
Difference required for significance at 5%			12	716	8			3	4	5

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Variety	Brand	Yield rank	Yield (bu/ac)*	Yield (lbs/ac)	Test wt (lbs/bu)	50% bloom (DAP)*	Flowering rating	Maturity (1-10)*	Plant height (inches)	Moisture at harvest (%)
Green Peas										
CDC Striker	Pulse USA	1	46	2740	63.7			9	25.8	13.6
Shamrock	Great Northern Ag	2	44	2665	62.4			10	17.7	13.4
SW Arcadia	Pulse USA	3	43	2556	63.7			10	21.3	12.1
CDC Greenwater	Meridian Seed	4	41	2471	63.4			9	27.6	13
AAC Comfort	Meridian Seed	5	39	2319	58.1			3	30.3	26.2
Empire	Great Northern Ag	6	29	1761	62.7			4	35.7	17.6
Junior pea	NS Seed	7	27	1650				6	26.1	18.2
Average of all Varieties			38	2309	62.3			7	26.4	16.3
Difference required for significance at 5%			10	648	2			2	5	4
Lentils										
CDC Maxim CL	Pulse USA	1	31	1835						10
CDC Invincible CL	Pulse USA	2	29	1738						10
Chickpeas										
CDC Orion	Meridian Seed	1	40	2418	53.9					12.2
CDC Frontier	Meridian Seed	2	35	2088	55.4					12.7

* DAP, Days after planting

* Yield at 60 lbs/bu and 13% moisture

* 1 = late maturing, 10 = early maturing

Trial summary:

1. Location: Mead, NE - Saunders CO
2. Seasonal precipitation (Mar 1 to Aug 15) 15.6 inches
3. Soil type: Silt Loam and Silt Clay Loam
4. Tillage practice: no-till
5. Previous crop: corn
6. Seeding (date, rate):
 - Yellow peas (04/05/2018, 310,000 live plants/acre)
 - Green peas (03/30/2018, 310,000 live plants/acre)

Trial summary (continued):

- Lentils (03/30/2018, 310,000 live plants/acre)
- Chickpeas (04/12/2018, 300,000 for Orion and 220,00 live plants/acre for Frontier)
- 7. Liquid + peat inoculant. Both at full rate
- 7. Herbicide program: Sharpen 2 oz + Prowl 2 pt
- 8. Harvest (date): yellow and green peas (07/12/2018); lentils (07/20/2018); chickpeas (08/13/2018)