

2019 Pea Variety Trial at Mead (Saunders Co.)_Dryland

Planting Date: 04/08/2019

Harvest Date: yellow and green peas (07/12/2019); lentils (07/22/2019); chickpeas (08/08/2019)

Variety	Company	Yield rank	Yield (bu/ac)*	Yield (lbs/ac)	Test wt (lbs/bu)	Flowering rating	Maturity (1-10)*	Plant height (inches)	Moisture at harvest (%)	Protein (%)
Yellow Peas										
AAC Profit	Valesco Genetics	1	84	5010	62	late	3	39.6	24	28.5
Agassiz	Meridian Seed	2	79	4740	63	mid	6	36.6	19	26.8
Polancos	Montana Integrity	3	79	4740	64	late	6	42.3	19	25.2
Salamanca	Valesco Genetics	4	79	4725	63	late	7	43.5	20	27.8
Nette 2010	Pulse USA	5	79	4725	65	early	9	33.9	15	24.0
Montech 4193	Arrowseed	6	78	4695	64	mid	7	35.7	16	24.3
AAC Carver	Meridian Seed	7	78	4680	64	mid	9	39.6	15	24.1
SW Midas	Pulse USA	8	78	4650	62	mid	8	32.4	16	25.9
Jetset	Meridian Seed	9	77	4605	65	mid	9	37.8	15	25.2
AC Earlystar	Meridian Seed	10	76	4575	65	mid	7	34.5	17	24.6
DS-Admiral	Pulse USA	11	75	4515	64	mid	8	36.6	15	25.8
LG Amigo	Pulse USA	12	75	4485	63	mid	5	40.2	18	26.7
CDC Amarillo	Meridian Seed	13	75	4485	61	late	5	38.7	26	26.2
CDC Saffron	Meridian Seed	14	74	4425	63	late	5	33.6	19	26.9
Durwood	Pulse USA	15	74	4425	64	mid	7	43.2	17	25.9
Navarro	Valesco Genetics	16	73	4365	63	early	5	40.8	17	26.7
Spider	Valesco Genetics	17	72	4335	63	mid	6	41.4	21	26.6
CDC Spectrum	Meridian Seed	18	71	4260	60	late	3	37.5	17	27.7
CDC Inca	Meridian Seed	19	71	4245	63	late	5	41.4	21	27.2
Bridger	Valesco Genetics	20	70	4215	63	early	7	39.6	18	26.1
Montech 4152	Arrowseed	21	68	4080	63	early	5	38.7	21	25.1
LG Sunrise	Pulse USA	22	66	3960	64	early	7	43.5	18	24.5
Hyline	Valesco Genetics	23	65	3885	63	late	4	33.3	22	26.0
Average of all Varieties			75	4472	63			38.5	18	26.0
Difference required for significance at 5%			8	503	2			5.7	7	0.8
CV			8.0	8.0	2.6			10.5	25.1	2.1

* 1 = late maturing, 10 = early maturing

* Yield at 60 lbs/bu and 13% moisture

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Green Peas										
SW Arcadia	Pulse USA	1	77	4867	63.6	early	5	32.1	16.4	24.5
AAC Confort	Meridian Seed	2	75	4449	59.3	late	5	33.3	33.3	26.3
CDC Striker	Pulse USA	3	72	4593	63.7	early	3	34.8	16.4	26.4
CDC Greenwater	Meridian Seed	4	71	4416	61.9	mid	7	39.6	19.1	25.3
Shamrock	Valesco Genetics	5	74	4437	62.2	mid	5	35.9	19.6	25.7
Average of all Varieties			74	4437	62.2		5	35.9	19.6	25.7
Difference required for significance at 5%			9	547	1.4			6.3	12.5	0.7
CV			8	8	1.5			11.7	40.7	1.9
Lentils										
CDC Maxim CL	Pulse USA	1	23	1361	58	early	4	-	16.2	-
CDC Invincible CL	Pulse USA	2	16	872	55.9	late	6	-	18.6	-
Average of all Varieties			20	1181	57.0				17.4	
Difference required for significance at 5%			2	376	2.8				2.7	
CV			18	399	2.9				9.0	
Chickpeas										
CDC Orion	Meridian Seed	1	40	2381.3	60	early	3.5	-	17.1	-
CDC Frontier	Meridian Seed	2	39	2353.4	60	late	3.5	-	18.4	-
Average of all Varieties			40	2393	60		3.5		17.8	
Difference required for significance at 5%			14	860					1.8	
CV			18	18					5.2	

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* Yield at 60 lbs/bu and 13% moisture

Trial summary:

1. Location: Mead, NE - Saunders CO
2. Soil type: Silt Loam and Silt Clay Loam
3. Tillage practice: no-till
4. Previous crop: corn
5. Seeding (date, rate):
 - Yellow peas (04/08/2019, 310,000 live plants/acre)
 - Green peas (04/08/2019, 310,000 live plants/acre)
 - Lentils (04/09/2019, 310,000 live plants/acre)

Trial summary:

- Chickpeas (04/09/2019, 300,000 live plants/acre)
6. Liquid inoculant @ full rate + peat inoculant @ full rate
 7. Herbicide program: Sharpen 2 oz + Prowl 2 pt sprayed on 04/09/2019
 8. Fungicide application: Headline 7.25 oz sprayed on all pulse crops on 06/13/2019
 9. Harvest (date): yellow and green peas (07/12/2019); lentils (07/22/2019); chickpeas (08/08/2019)