

**NDSU Carrington Research Extension Center
2016 Variety Trial Data**

Field Pea **Carrington (Page 1 of 4)**

Variety	** Trial data compromised by hail storm*					Canopy		-- Harvest Ease ⁴ -			--- Seed Yield ---					
	Seed Shatter ¹	Seed Loss ²	Days to Bloom	Bloom Duration	Days to PM	Vine Length	Ht at Harvest	Height Index ³	3-yr. 2016	3-yr. Avg.	Seed Protein	Seeds/1000 Pound	1000 KWT	Test Weight	3-yr. 2016	3-yr. Avg.
	0 to 9	0 to 10				inch	inch	%	----- 0 - 9 -----	%		gram	lb/bu	----- bu/ac -----		
Yellow Cotyledon Type																
AAC Carver	3.3	4.5	63.8	6.5	89.5	28.1	17.9	63.8	2.5	--	26.8	2137	212	58.5	31.0	--
Abarth	2.5	4.3	61.8	6.0	89.5	25.3	18.1	71.8	3.3	4.7	27.6	1917	238	57.6	29.2	64.3
AC Earlystar	2.8	4.8	62.0	7.0	87.0	26.0	15.2	58.9	3.5	5.0	26.5	2066	220	58.7	29.9	61.9
Agassiz	2.5	1.8	63.3	6.5	93.3	23.0	20.7	89.8	1.0	4.2	28.9	2223	204	58.5	35.6	65.5
Bridger	2.0	4.0	60.5	6.8	88.8	23.1	16.3	71.2	2.0	3.9	29.5	2154	211	59.9	23.7	58.1
CDC Amarillo	1.3	1.3	64.3	6.3	95.3	28.0	24.8	89.2	1.0	--	29.6	2177	209	57.9	33.8	--
CDC Saffron	2.8	3.0	63.5	6.0	91.0	22.8	16.3	71.7	3.3	--	29.2	2069	220	59.2	31.1	--
DS Admiral	3.3	5.3	62.0	6.0	87.3	25.3	19.3	76.3	2.0	3.8	27.2	1959	232	59.3	34.2	60.5
Durwood	3.0	4.3	61.3	6.8	91.0	27.4	23.3	85.9	1.0	3.3	28.8	1896	240	57.8	32.1	59.6
Gambit	1.0	2.0	65.3	5.8	94.8	25.9	16.2	63.4	3.8	--	29.9	2053	223	59.1	26.9	--
Hyline	3.3	6.8	63.5	6.5	87.5	25.7	9.9	38.7	6.0	6.0	27.1	2006	227	57.9	24.1	58.0
Jetset	3.3	4.8	61.3	6.5	88.5	24.6	20.5	84.2	1.3	4.7	28.8	2095	218	58.8	25.5	60.3
Korando	3.3	4.0	55.0	9.3	89.0	21.7	15.9	74.0	4.0	5.3	29.9	1841	247	58.3	25.0	52.2
LGPN4243	3.3	4.3	61.0	6.3	87.5	23.3	13.1	56.1	3.5	--	28.7	2019	225	59.2	29.7	--
LGPN4244	3.5	6.3	58.0	6.8	88.8	24.9	16.9	70.9	2.0	--	28.3	2142	212	57.8	29.7	--
LGPN4902	2.5	6.5	60.3	6.3	89.3	25.2	20.4	80.9	1.0	--	28.9	2425	187	59.1	26.8	--
LGPN4903	3.3	6.0	58.3	8.0	88.0	27.5	21.3	77.7	1.0	--	26.8	2190	207	59.7	32.7	--
LGPN4906	3.3	7.0	61.0	6.5	87.5	23.5	21.6	92.4	1.3	--	29.0	2170	209	59.2	26.5	--
LGPN4907	3.3	4.3	61.0	6.0	90.3	22.1	17.6	80.0	3.0	--	28.0	1690	269	58.5	25.3	--
Majestic	2.3	3.0	63.3	6.0	92.3	25.8	24.3	94.1	0.8	--	29.2	2164	210	59.0	22.7	--
Mystique	1.5	3.0	63.0	6.8	92.8	24.9	20.3	81.4	1.3	3.8	29.0	2067	221	58.0	26.1	58.4
Navarro	3.8	5.5	57.3	7.5	91.3	24.5	16.8	69.0	3.3	5.0	28.4	1857	245	58.8	22.5	55.3
Nette 2010	4.5	7.0	59.0	7.0	85.5	25.0	17.6	70.6	1.5	3.7	26.6	1976	230	58.6	29.7	59.5
MEAN	2.5	4.2	61.7	6.6	90.7	24.7	18.0	73.0	2.3	--	29.1	2103	218	58.5	25.6	--
C.V. (%)	34.6	30.2	1.8	15.7	1.4	8.7	11.6	13.0	36.5	--	2.1	5.2	5.4	1.5	15.8	--
LSD 0.10	1.0	1.5	1.3	1.2	1.5	2.5	2.4	11.0	1.0	--	0.7	128	14	1.0	4.7	--
LSD 0.05	1.2	1.7	1.6	1.4	1.8	3.0	2.9	13.1	1.2	--	0.9	152	16	1.2	5.6	--

Planting Date = April 13 ; Harvest Date = July 22 ; Previous Crop = Spring Wheat

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Field Pea **Carrington (Page 2 of 4)**

Variety	** Trial data compromised by hail storm*					Canopy		-- Harvest Ease ⁴ -			--- Seed Yield ---					
	Seed Shatter ¹	Seed Loss ²	Days to Bloom	Bloom Duration	Days to PM	Vine Length	Ht at Harvest	Height Index ³	3-yr. 2016	3-yr. Avg.	Seed Protein	Seeds/1000 Pound	1000 KWT	Test Weight	3-yr. 2016	3-yr. Avg.
	0 to 9	0 to 10				inch	inch	%	----- 0 - 9 -----		%	gram	lb/bu	----- bu/ac -----		
Yellow Cotyledon Type																
PG6002	4.0	6.3	63.3	7.0	87.3	25.4	17.9	70.6	1.8	--	25.6	2160	211	59.1	31.6	--
PP-0667	3.0	5.3	63.5	6.5	90.0	24.1	20.8	86.8	2.5	--	26.9	2146	212	59.5	30.5	--
PP-EXP0004	1.8	2.0	62.5	7.8	93.3	24.4	20.0	82.5	1.0	--	30.2	2209	206	59.2	25.2	--
PP-EXP0006	1.0	1.0	65.5	5.8	95.5	26.6	19.7	74.2	2.5	--	30.1	2359	194	57.1	16.8	--
PSTSP25	3.0	5.3	63.7	5.3	88.3	28.1	19.3	68.7	1.7	--	28.0	1890	240	58.6	28.7	--
PSTSP26	2.8	3.5	58.3	7.5	89.8	24.3	18.5	76.5	2.0	--	29.0	1852	247	59.4	29.4	--
PSTSP27	2.5	3.5	58.3	7.3	87.8	22.7	18.5	81.8	1.8	--	30.5	1889	241	59.1	26.9	--
PUSA 0014	2.3	5.3	61.5	6.3	89.0	24.7	20.2	81.7	1.8	4.1	29.8	2119	215	58.5	22.6	57.3
PUSA 0414	2.3	4.8	58.0	7.0	92.0	23.1	19.9	86.2	1.3	--	30.8	2272	200	57.4	17.6	--
PUSA 0614	4.3	7.8	57.0	7.3	86.3	25.9	19.9	76.9	1.0	3.8	30.3	2202	207	58.3	20.3	55.5
PUSA 0814	1.5	2.0	61.8	7.3	94.0	27.2	22.5	82.8	1.0	--	30.9	2305	197	58.4	21.1	--
PUSA 1606	3.0	5.5	60.0	7.0	87.0	25.9	15.7	60.9	2.3	--	28.6	1907	238	58.3	28.6	--
PUSA 1608	1.0	0.8	60.5	7.3	94.0	24.4	17.5	71.9	2.0	--	32.4	2130	213	55.6	13.1	--
PUSA 1610	1.5	1.0	62.8	6.8	93.5	23.7	18.6	78.9	1.5	--	30.3	2224	205	58.8	21.9	--
PUSA 1612	3.0	4.0	60.8	6.8	92.0	25.0	18.1	72.7	1.8	--	27.6	2010	226	59.2	32.8	--
PUSA 1614	3.0	5.3	60.0	7.5	89.0	24.9	17.7	71.3	1.5	--	28.3	2043	222	59.5	30.2	--
PUSAEXP 115	1.5	1.8	61.3	7.0	93.5	25.9	19.6	75.7	1.0	--	31.7	2298	198	58.8	19.6	--
PUSAEXP 312	2.3	3.5	61.3	7.0	92.3	26.6	23.5	89.2	1.0	--	27.8	1948	234	59.3	31.9	--
PUSAEXP 512	2.3	3.0	62.5	5.3	90.3	24.4	18.2	74.8	3.8	--	29.4	2173	209	59.4	25.9	--
Salamanca	1.0	1.0	61.8	6.8	93.5	26.0	20.1	77.3	1.8	4.3	31.8	1985	229	58.5	21.6	57.7
Spider	2.0	3.3	62.8	6.8	92.0	26.2	15.6	60.5	4.0	4.8	29.3	2030	224	58.1	27.7	59.5
SW Midas	3.8	8.0	63.3	6.5	87.3	22.2	15.0	67.5	3.5	4.8	27.4	2378	191	58.5	23.1	56.0
Vegas	2.3	3.0	59.3	6.5	90.3	22.1	19.2	87.2	1.5	3.7	30.4	2057	222	58.7	27.5	58.6
MEAN	2.5	4.2	61.7	6.6	90.7	24.7	18.0	73.0	2.3	--	29.1	2103	218	58.5	25.6	--
C.V. (%)	34.6	30.2	1.8	15.7	1.4	8.7	11.6	13.0	36.5	--	2.1	5.2	5.4	1.5	15.8	--
LSD 0.10	1.0	1.5	1.3	1.2	1.5	2.5	2.4	11.0	1.0	--	0.7	128	14	1.0	4.7	--
LSD 0.05	1.2	1.7	1.6	1.4	1.8	3.0	2.9	13.1	1.2	--	0.9	152	16	1.2	5.6	--

Planting Date = April 13 ; Harvest Date = July 22 ; Previous Crop = Spring Wheat

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Field Pea **Carrington (Page 3 of 4)**

Variety	** Trial data compromised by hail storm*					Canopy		-- Harvest Ease ⁴ -			--- Seed Yield ---					
	Seed Shatter ¹	Seed Loss ²	Days to Bloom	Bloom Duration	Days to PM	Vine Length	Ht at Harvest	Height Index ³	3-yr. 2016	3-yr. Avg.	Seed Protein	Seeds/ Pound	1000 KWT	Test Weight	3-yr. 2016	3-yr. Avg.
	0 to 9	0 to 10				inch	inch	%	----- 0 - 9 -----		%		gram	lb/bu	----- bu/ac -----	
Green Cotyledon Type																
Aragorn	3.0	6.3	59.0	7.3	86.3	20.5	13.5	66.4	3.3	5.5	30.6	2087	218	57.8	12.5	48.6
Arcadia	4.8	7.8	62.5	6.5	88.5	18.6	9.0	48.5	6.8	6.0	28.6	2535	180	57.4	21.2	59.0
Bluemoon	2.8	5.8	65.0	4.5	88.3	24.3	15.8	65.9	2.3	4.8	27.7	2086	218	59.2	29.2	62.1
CDC Patrick	2.3	4.0	64.0	6.5	91.3	23.5	13.3	57.3	4.0	--	28.2	2560	177	58.6	29.2	--
CDC Raezer	1.8	4.0	63.3	5.8	93.3	24.2	18.3	76.0	2.8	--	30.5	2337	194	58.1	16.7	--
CDC Striker	4.0	8.3	63.3	6.0	88.8	20.2	8.2	40.8	8.0	6.7	28.6	2498	182	57.2	17.5	56.3
Cruiser	4.5	7.0	59.0	7.3	87.0	24.4	14.9	60.9	2.8	5.3	29.7	2161	211	58.1	15.7	51.6
Ginny	3.0	6.0	62.0	6.0	89.8	23.5	13.7	59.3	3.8	5.3	28.6	2088	218	58.2	24.1	52.7
Greenwood	4.5	7.5	63.0	6.5	88.8	21.1	13.6	65.0	4.0	5.2	26.9	2238	203	59.7	19.6	53.9
K2	3.3	7.3	60.5	7.3	89.8	20.0	17.8	89.9	2.7	--	27.5	2293	198	58.7	24.1	--
LGPN1903	1.3	2.8	64.0	6.5	93.3	26.1	19.0	72.6	2.3	--	30.8	2197	208	56.6	27.7	--
LGPN1904	1.8	2.0	63.0	6.8	93.0	28.9	20.8	71.4	1.3	--	28.6	2126	214	58.8	34.5	--
LGPN1905	3.5	7.0	61.0	6.5	88.5	26.1	17.5	67.0	2.8	--	27.3	1944	234	59.1	27.2	--
LN1123	1.5	2.8	64.0	5.8	91.0	24.8	14.4	58.1	3.8	4.8	29.4	2085	219	58.8	28.5	60.9
Majoret	2.5	3.5	64.5	6.0	92.0	25.2	16.9	67.6	2.0	4.4	30.7	2165	210	58.6	24.5	57.8
Matrix	1.8	1.5	65.5	5.5	94.5	21.3	13.4	62.9	4.3	5.3	29.7	1984	230	59.1	22.6	59.7
PSTSP13	1.0	1.8	63.5	5.8	93.8	26.7	20.1	75.4	0.8	--	30.5	1716	265	58.2	30.4	--
PUSA 0114	1.3	1.8	65.5	6.0	94.3	27.6	17.1	62.3	3.0	--	28.5	2190	207	57.8	29.6	--
PUSA 0214	1.3	3.3	62.5	7.8	94.5	24.8	17.0	68.5	3.3	--	29.8	1923	237	57.4	26.1	--
PUSA 1532	2.3	2.8	61.5	6.3	93.0	27.5	20.2	73.9	1.0	--	29.3	1808	251	59.4	26.8	--
PUSA 1603	1.8	4.5	62.5	6.0	92.5	25.9	19.4	75.0	2.3	--	28.8	2135	213	58.7	21.1	--
PUSA 1621	2.0	3.8	62.5	6.0	93.8	26.9	23.3	87.3	1.0	--	30.1	2404	189	57.2	17.9	--
PUSA 1624	2.0	3.8	63.3	6.3	90.3	20.9	15.7	75.1	4.0	--	27.6	2004	227	58.2	31.5	--
MEAN	2.5	4.2	61.7	6.6	90.7	24.7	18.0	73.0	2.3	--	29.1	2103	218	58.5	25.6	--
C.V. (%)	34.6	30.2	1.8	15.7	1.4	8.7	11.6	13.0	36.5	--	2.1	5.2	5.4	1.5	15.8	--
LSD 0.10	1.0	1.5	1.3	1.2	1.5	2.5	2.4	11.0	1.0	--	0.7	128	14	1.0	4.7	--
LSD 0.05	1.2	1.7	1.6	1.4	1.8	3.0	2.9	13.1	1.2	--	0.9	152	16	1.2	5.6	--

Planting Date = April 13 ; Harvest Date = July 22 ; Previous Crop = Spring Wheat

**NDSU Carrington Research Extension Center
2016 Variety Trial Data**

Field Pea **Carrington (Page 4 of 4)**

** Trial data compromised by hail storm*

Variety	Seed Shatter ¹	Seed Loss ²	Days to Bloom	Bloom Duration	Days to PM	Vine Length	Canopy Ht at Harvest	Height Index ³	-- Harvest Ease ⁴ -		Seed Protein	Seeds/1000 Pound	1000 KWT	Test Weight	--- Seed Yield ---	
	0 to 9	0 to 10				inch	inch	%	2016	3-yr. Avg.	%		gram	lb/bu	2016	3-yr. Avg.
Green Cotyledon Type																
PUSA 1627	2.3	4.8	54.0	9.0	90.8	22.7	18.0	79.5	1.3		31.0	1964	231	59.4	23.2	--
PUSAEXP 215	1.0	1.3	65.0	5.3	96.0	29.5	24.7	84.0	1.0		29.6	2353	193	57.9	20.4	--
PUSAEXP 815	1.3	2.8	58.3	6.3	92.0	23.3	19.0	81.5	1.5		31.1	2108	216	58.7	24.2	--
Viper	1.8	4.3	60.5	6.0	91.0	24.6	18.0	73.1	2.3		31.0	2060	221	58.4	23.5	--
Marrowfat Type																
PUSA 1536	2.0	0.8	63.8	6.0	97.3	31.2	21.9	70.6	1.5		31.2	1716	266	54.9	16.0	--
MEAN	2.5	4.2	61.7	6.6	90.7	24.7	18.0	73.0	2.3	--	29.1	2103	218	58.5	25.6	--
C.V. (%)	34.6	30.2	1.8	15.7	1.4	8.7	11.6	13.0	36.5	--	2.1	5.2	5.4	1.5	15.8	--
LSD 0.10	1.0	1.5	1.3	1.2	1.5	2.5	2.4	11.0	1.0	--	0.7	128	14	1.0	4.7	--
LSD 0.05	1.2	1.7	1.6	1.4	1.8	3.0	2.9	13.1	1.2	--	0.9	152	16	1.2	5.6	--

Planting Date = April 13 ; Harvest Date = July 22 ; Previous Crop = Spring Wheat

** Please note: This trial was impacted by a hail storm on July 9 (19 days after end bloom) that caused significant plant damage and seed loss across the trial.

** Crop development notes, equate to days from planting.

¹ Seed Shatter: scored on 0 to 9 scale on July 13 to assess seed shatter and loss due to hail storm. 0 = no seed loss to 9 = high amount of seed loss.

² Seed Loss: scored on 0 to 10 scale on July 25 after harvest to assess seed loss due to hail storm. 0 = no abnormal seed or harvest loss to 10 = very large amount of seed loss.
{Scores vs. seed loss: 4 = 21; 7 = 44; 8 = 48 seeds per square foot. }

³ Harvest Index; Plant height at time of harvest relative to plant height at end of bloom.

⁴ Harvest Ease scores; 0 = all plants upright ~ very easy harvest, to 9 = all plants flat ~ very difficult to harvest direct.