

Blueman Green Pea

Blueman Green Pea is a green cotyledon, semi leafless line developed in France in 2007. It was trialed in Canada in 2014 and selected based on its resistance to powdery mildew and other agronomic characteristics.

Strengths:

- ✓ Yield in both years of testing was greater than the check
- ✓ Resistant to powdery mildew
- ✓ Very good standability/lodging resistance
- ✓ Medium to tall plant height
- ✓ Small seed size
- ✓ Good colour intensity



Other Attributes:

- ✓ Not significantly later than the checks in maturity
- ✓ Disease reaction similar to the checks CDC Limerick and CDC Stricker.

Table 1: 2017 Alberta Regional Variety Trial

	Area						Agronomics				Disease Tolerance				
	Overall Yield	1	2	3	4	5	DTM	Length (cm)	TSW (g)	Standability (1-9)	M.* Blight	Fus. Wilt	Bleach-ing	Seed Coat Breakage	Seed Coat Dimpling
CDC Limerick (kg/ha)	4764	3355	4497	6246	4672	6931									
CDC Limerick	100	100	100	100	100	100	M	77	210	3.2	F	F	G	VG	G
Blueman	107	124	108	101	97	94	M	81	209	3.1	F	F	G	G	G
AAC Comfort	99-	104	99	97	100	86	M-L	77	244	3.7	F	F	G	XX	F
AAC Royce	96-	106	94	92	98	79	M	67	247	4.1	F	F	G	F	F
CDC Forest	111+	130	107	108	102	102	M	81	228	2.6	F	F	G	G	G
CDC Spruce	104	103	106	110	95	115	M	82	243	2.8	F	F	G	G	F

XX= Insufficient data

Maturity: E=Early, M=Medium, L=Late

TSW=Thousand Seed Weight

Standability: 1=Erect, 9=Flat

Disease Tolerance: P=Poor, F=Fair, G=Good, VG=Very Good

M=Mycosphaerella Fus=Fusarium

Seed Coat Dimpling: VG-Very Good (0-5%), G=Good (6-20%), F= (21-50%)

Table 2: Agronomic performance summary for entries in the 2015-2016 Field Pea Cooperative Registration Test "A"

	Yield					Vine Length (cm)	Lodging (1-9)	Seed				
	Colour	Kg/ha	% of	% of	DTM			TSW (g)	Shape (1-5)	Bleaching (1-5)	Colour Intensity (1-5)	Protein (%)
			yellow	green								
CDC Amarillo (check)	Y	3990	102	112	96	79	3.3	236	2.6			20.3
Agassiz (check)	Y	3810	98	107	95	75	4.4	232	2.7			20.1
CDC Limerick (check)	G	3623	93	102	97	76	3.7	211	2.4	3.0	3.0	22.5
Cooper (check)	G	3492	90	98	98	71	3.9	272	2.7	3.4	3.2	21.3
Blueman	G	3739	96	105	97	79	4.3	226	2.7	3.4	3.4	20.9

Colour: Y=yellow cotyledon, G=green cotyledon

DTM: Days to Maturity

Yield: % of yellow=% yield of the average yield of yellow checks; % of green= % yield of the average yield of green checks

Lodging: 1=upright, 9=flat

Shape: 1=round, 5=blocky

Bleaching: CDC Limerick=3.0 1=less bleached than CDC Limerick, 5=more bleached than CDC Limerick

Colour Intensity: CDC Limerick=3.0 1=more intense than CDC Limerick, 5= less intense than CDC Limerick

Table 3: Agronomic performance and seed characteristic summary for entries in the 2016 Pea Co-op "A" trial

	Yield					Vine Length (cm)	Lodging (1-9)	Seed				
	Colour	Kg/ha	% of	% of	DTM			TSW (g)	Shape (1-5)	Bleaching (1-5)	Colour Intensity (1-5)	Protein (%)
			yellow	green								
CDC Amarillo (check)	Y	4658	101	110	99	96	3.9	228	2.5			19.7
Agassiz (check)	Y	4610	100	109	98	90	5.1	223	2.5			19.6
AAC Lacombe (check)	Y	4546	99	108	98	95	4.1	262	2.4			18.8
CDC Limerick (check)	G	4089	89	97	99	91	4.3	203	2.5	3.0	3.0	22.7
Cooper (check)	G	4067	88	96	99	83	4.1	261	2.5	3.2	3.2	20.5
Blueman	G	4374	95	104	99	94	4.8	218	2.6	3.3	3.4	20.9

Colour: Y=yellow cotyledon, G=green cotyledon

DTM: Days to Maturity

Lodging: 1=upright, 9=flat

Shape: 1=round, 5=blocky

Yield: % of yellow=% yield of the average yield of yellow checks; % of green= % yield of the average yield of green checks

Bleaching: CDC Limerick=3.0 1=less bleached than CDC Limerick, 5=more bleached than CDC Limerick

Colour Intensity: CDC Limerick=3.0 1=more intense than CDC Limerick, 5= less intense than CDC Limerick