

# 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
<b>Blueman</b>	<b>107</b>	<b>124</b>	<b>108</b>	<b>101</b>	<b>97</b>	<b>94</b>	<b>M</b>	<b>81</b>	<b>209</b>	<b>3.1</b>	<b>F</b>	<b>F</b>	<b>G</b>	<b>G</b>	<b>G</b>
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					Seed						
	Colour	Kg/ha	% of yellow	% of green	DTM	Vine		TSW (g)	Shape (1-5)	Bleaching (1-5)	Colour	
						Length (cm)	Lodging (1-9)				Intensity (1-5)	Protein (%)
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
<b>Blueman</b>	<b>G</b>	<b>3739</b>	<b>96</b>	<b>105</b>	<b>97</b>	<b>79</b>	<b>4.3</b>	<b>226</b>	<b>2.7</b>	<b>3.4</b>	<b>3.4</b>	<b>20.9</b>

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					Seed						
	Colour	Kg/ha	% of yellow	% of green	DTM	Vine		TSW (g)	Shape (1-5)	Bleaching (1-5)	Colour	
						Length (cm)	Lodging (1-9)				Intensity (1-5)	Protein (%)
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
<b>Blueman</b>	<b>G</b>	<b>4374</b>	<b>95</b>	<b>104</b>	<b>99</b>	<b>94</b>	<b>4.8</b>	<b>218</b>	<b>2.6</b>	<b>3.3</b>	<b>3.4</b>	<b>20.9</b>

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