

# Technical Bulletin

Genes that fit *your* farm.



## CDC Forest Green Field Pea



Progress Through Research  
Le progrès grâce à la recherche

### Description:

CDC Forest is a very high yielding green cotyledon, semi-leafless field pea with good lodging tolerance, improved mycosphaerella blight resistance and powdery mildew resistance.

**Parentage:** CDC Bronco/Nitouche//Argus

### Strengths:

- Improved yield (117%) compared to the mean of the green check varieties (CDC Striker and Cooper)
- Fair mycosphaerella resistance, better than the checks
- Powdery mildew resistance

### Neutral:

- Good lodging resistance; similar to checks
- Medium vine length, slightly taller than the checks

- Medium maturity, 1 day later than Cooper, and 3 days later than CDC Striker
- Medium seed size, slightly smaller than the checks
- Round seed shape, blockier than CDC Striker but rounder than Cooper
- Low seed coat breakage percent, similar to Cooper and less than CDC Striker
- Good bleaching resistance
- Moderate green colour intensity, similar to checks
- Fair Fusarium wilt resistance; similar to checks

### Breeder:

### Funded by:



UNIVERSITY OF SASKATCHEWAN

Crop Development Centre  
COLLEGE OF AGRICULTURE AND BIORESOURCES  
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**Table 1: Agronomic performance of CDC Forest compared to the checks (Pea Co-op Test A, 2013-2014)**

Variety	Yield (kg/ha)	Yield (% mean of checks)	Days to maturity	Vine length (cm)	Lodging (pre-harvest)	Seed wt (mg)	Seed shape	Seed coat breakage (%)	Bleaching	GCI	Crude protein (%)
CDC Striker	4181	98	97	80	3.9	242	2.5	0.3	3.0	3.5	25.1
Cooper	4310	102	99	82	3.8	257	3.1	5.5	3.2	3.9	23.7
<b>CDC Forest</b>	<b>4948</b>	<b>117</b>	<b>100</b>	<b>86</b>	<b>3.8</b>	<b>230</b>	<b>2.9</b>	<b>2.1</b>	<b>3.2</b>	<b>3.7</b>	<b>23.7</b>
CV	10										
LSD 05	332		0.9	6.9	0.5	9.3	0.2	1.9	0.2	0.2	0.9
# locations	22		20	17	23	19	20	4	19	20	9

Lodging score: 1=upright; 9=completely lodged  
Shape: 1=round; 5=cubic

**Table 2: Disease resistance data of CDC Spectrum compared to the checks (Pea Co-op Test B, 2012-2013)**

Variety	Myco (MB)	Myco (SK)	AUDPC-SK	Fusarium wilt (%)	Powdery mildew
CDC Striker (check)	4.5	3.8	15.7	25	7.4
Cooper (check)	4.0	3.8	12.9	32	0
<b>CDC Forest</b>	<b>4.3</b>	<b>3.0</b>	<b>15.5</b>	<b>29</b>	<b>0</b>
LSD 05	1.3	.7	2.8	21.8	1.0
# locations	2	2	2	2	2

Myco (MB)= Mycosphaerella blight assessed at Morden, MB (1=no disease, 9=completely blighted)

Myco (SK)= Mycosphaerella blight assessed at Saskatoon, SK.

AUDPC= Mycosphaerella blight area under the disease progress curve

Powdery mildew (0=no disease, 9=completely mildewed)

For more information, call 1-800-665-7333 or visit [www.secan.com](http://www.secan.com)

## 2024 Seed Manitoba

Variety	Yield (% of AAC Carver)	Site Years Tested	Relative Maturity	Relative Vine Length	Seed Size (TKW)	Resistance to:							
						Lodging	Powdery Mildew	MB <sup>1</sup>	Fusarium Wilt <sup>2</sup>	Green Seed Coat <sup>3</sup>	Seed Coat Breakage	Seed Coat Dimpling <sup>4</sup>	Bleaching
AAC Carver (C)	100	52	Early	L	249	G	VG	F	F	G	G	G	N/A
CDC Spruce	96	19	Long	L	240	G	VG	F	F	N/A	F	F	G
<b>CDC Forest</b>	<b>99</b>	<b>34</b>	<b>Long</b>	<b>L</b>	<b>230</b>	<b>G</b>	<b>VG</b>	<b>F</b>	<b>F</b>	<b>N/A</b>	<b>G</b>	<b>G</b>	<b>G</b>

1. Mycosphaerella Blight
2. Varieties which show good disease tolerance to one strain of Fusarium wilt may be susceptible to other strains
3. Green seed coats: G= 0-10%, F= 11-25%
4. Seed coat dimpling rating: VG= 0-5%, G= 6-20%, F= 21-50%

## 2024 Saskatchewan Seed Guide

Variety	Years Tested	Yield (% of CDC Amarillo)			Protein	Relative Maturity	Lodging <sup>1</sup>	Vine Length (cm)	Resistance to:							Seed Weight (g/1000)
		1, 2 & South 3	North 3 & 4	Irrigation					MB <sup>2</sup>	Powdery Mildew	Fusarium Wilt	Seed Coat Breakage	Bleaching	Seed Coat Dimpling <sup>3</sup>	Greenness <sup>4</sup>	
CDC Amarillo (C)	14	100	100	100	23.0	M	3.5	85	4.5	R	MR	F	N/A	F	G	230
CDC Greenwater	11	99	93	89	-0.9	M	3.5	90	4.0	R	MR	F	G	F	N/A	230
CDC Spruce	13	97	98	---	+0.3	M	4.0	85	4.5	R	I	F	G	F	N/A	240
<b>CDC Forest</b>	<b>11</b>	<b>102</b>	<b>103</b>	<b>---</b>	<b>0.0</b>	<b>M</b>	<b>4.0</b>	<b>85</b>	<b>4.5</b>	<b>R</b>	<b>I</b>	<b>G</b>	<b>F</b>	<b>G</b>	<b>N/A</b>	<b>230</b>

1. Lodging: 1= completely upright, 9= completely lodged
2. Mycosphaerella Blight score (1-9) 1= no disease, 9= completely blighted
3. Seed coat dimpling: VG= 0-5%, G= 6-20%, F= 21-50%
4. Green seed coats: G= 0-15%, F= 16-40%

## 2023 Alberta Seed Guide

Variety	Overall Yield	Overall Station Years of Testing	Brown - Irrigated		Brown		Black-short		Black-mid		Grey Wooded		Maturity Rating <sup>1</sup>	Vine Length (cm)	Seed Size (TKW)	Standability <sup>2</sup>	Disease Tolerance <sup>5</sup>		Resistance to:		
			Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years					Yield (%)	Site Years	MB <sup>3</sup>	Fusarium Wilt	Bleaching
CDC Limerick (C)	100	56	100	5	100	7	100	13	100	18	100	13	M	85	210	3.0	4.5	I	G	VG	G
CDC Spruce	106	32	XX	2	XX	5	109	7	109	11	103	7	M	85	240	2.3	4.5	I	G	F	F
<b>CDC Forest</b>	<b>108</b>	<b>56</b>	<b>XX</b>	<b>5</b>	<b>110</b>	<b>7</b>	<b>110</b>	<b>13</b>	<b>106</b>	<b>18</b>	<b>111</b>	<b>13</b>	<b>M</b>	<b>85</b>	<b>230</b>	<b>2.2</b>	<b>4.5</b>	<b>I</b>	<b>G</b>	<b>G</b>	<b>G</b>

1. Maturity: E= Early, M= Medium, L= Late
2. Standability: 1= completely upright 9= completely lodging
3. Mycosphaerella Blight, P= Poor, F= Fair, G= good, VG= Very Good R= Resistant
4. Seed Coat Dimpling: VG= 0-5%, G= 6-20%, F= 21-50%
5. Disease Tolerance: P = poor, F = Fair, G = Good and VG = Very Good

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