

# Technical Bulletin

Genes that fit *your* farm.



## CDC Spectrum Yellow Field Pea



Progress Through Research  
Le progrès grâce à la recherche

### Description:

CDC Spectrum is a high yielding yellow cotyledon, semi-leafless field pea with improved yield potential, good lodging tolerance and powdery mildew resistance.

**Parentage:** CDC Meadow/Polstead//CDC Bronco

### Strengths:

- 11% higher yield compared to the mean of the yellow checks CDC Golden and Agassiz
- Better lodging resistance than the checks
- Powdery mildew resistant

### Neutral Traits:

- Medium maturity (2 days later than Agassiz, 4 days later than CDC Golden)
- Medium vine length (similar to the checks)

- Medium seed size (larger than the checks)
- Round seed shape (similar to the checks)
- Low seed coat breakage percent
- Moderate protein concentration (similar to Agassiz, less than CDC Golden, higher than CDC Amarillo)
- Fair Mycosphaerella Blight resistance; similar to the checks
- Fair Fusarium wilt resistance; similar to the checks CDC Golden and Agassiz

**Breeder:**

**Funded by:**



UNIVERSITY OF SASKATCHEWAN

Crop Development Centre  
COLLEGE OF AGRICULTURE AND BIORESOURCES  
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**Table 1: Performance of CDC Spectrum compared to the checks (Pea Co-op Test B, 2012-2013)**

Variety	Yield (kg/ha)	Yield (% mean of checks)	Days to maturity	Vine length (cm)	Lodging (pre-harvest)	Seed wt (mg)	Shape	Seed coat breakage (%)	Crude protein (%)
CDC Golden (check)	4743	95	96	85	5.0	206	2.5	1	24.7
Agassiz (check)	5196	105	98	87	4.4	219	2.5	5	23.8
<b>CDC Spectrum</b>	<b>5501</b>	<b>111</b>	<b>100</b>	<b>90</b>	<b>3.2</b>	<b>232</b>	<b>2.5</b>	<b>2</b>	<b>23.9</b>
CV	8.3								
LSD 05	266		1.1	3.7	0.4	6.3	0.1	4.2	0.6
# of locations	21		19	16	21	21	21	7	11

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 Golden (check)	6.5	5.0	15.7	33	0
Agassiz (check)	5.8	4.5	13.8	26	0
<b>CDC Spectrum</b>	<b>5.8</b>	<b>4.2</b>	<b>13.2</b>	<b>25</b>	<b>0</b>
LSD 05	0.5	2.5	1.1	15.2	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 mildew)

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

## 2024 Seed Manitoba

Variety	Yield % of Check	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>
CDC Amarillo (C)	98	50	Long	M	230	VG	VG	F	G	G	F	F
CDC Hickie	100	14	Mid	M	230	VG	VG	F	G	G	G	G
CDC Lewochko	100	42	Long	L	230	VG	VG	F	F	G	G	G
<b>CDC Spectrum</b>	<b>93</b>	<b>42</b>	<b>Long</b>	<b>L</b>	<b>240</b>	<b>VG</b>	<b>VG</b>	<b>F</b>	<b>F</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%

## 2025 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	Seed Coat Dimpling <sup>3</sup>		Greenness <sup>4</sup>
CDC Amarillo (C)	15	100	100	100	23.8	M	2.9	85	3.9	R	MR	F	F	G	230
CDC Boundless	5	109	105	---	+0.5	M	-0.1	90	-0.1	R	MR	G	G	G	230
CDC Canary	10	99	100	---	-0.2	E	+0.2	85	+0.4	R	I	G	F	F	230
CDC Hickie	8	106	105	---	+0.6	M	-0.1	85	0.0	R	MR	G	G	G	230
CDC Lewochko	11	103	103	---	+0.7	M	-0.1	90	-0.1	R	I	G	G	G	230
CDC Tollefson	8	107	106	---	-0.1	M	-0.2	90	-0.1	R	MR	G	G	G	240
<b>CDC Spectrum</b>	<b>13</b>	<b>104</b>	<b>103</b>	<b>93</b>	<b>+0.3</b>	<b>M</b>	<b>0.0</b>	<b>85</b>	<b>-0.2</b>	<b>R</b>	<b>I</b>	<b>G</b>	<b>G</b>	<b>F</b>	<b>240</b>

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

## 2025 Alberta Seed Guide

Variety	Most Recent year of RVT Testing	Overall Yield	Overall Station Years of Testing	Brown - Irrigated		Brown		Black-short		Black-mid		Grey Wooded		Agronomic Characteristics:					Disease Tolerance <sup>5</sup>		Tolerance to:			
				Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Protein (%)	Maturity Rating <sup>1</sup>	Vine Length (cm)	Seed Size (TKW)	Standability <sup>2</sup>	MB <sup>3</sup>	Fusarium Wilt	Seed Coat Breakage	Seed Coat Dimpling <sup>4</sup>
<b>CDC Amarillo (bu/ac)</b>		<b>74</b>		<b>92</b>		<b>64</b>		<b>80</b>		<b>69</b>		<b>76</b>												
CDC Amarillo (C)	2024	100	87	100	4	100	10	100	22	100	38	100	13	23.8	M	85	230	2.9	3.9	MR	F	F	G	
CDC Canary	2023	103	58	XX	3	95	7	104	14	105	23	103	13	-0.2	E	58	230	3.1	4.3	I	G	F	F	
CDC Hickie	2024	101	25	XX	2	XX	2	105	6	101	10	XX	3	+0.6	M	85	230	2.8	2.9	MR	G	G	G	
CDC Lewochko	2023	103	58	XX	3	98	7	104	14	104	23	103	11	+0.7	M	90	230	2.8	<b>3.8</b>	I	G	G	G	
CDC Tollefson	2024	105	25	XX	2	XX	2	108	6	106	10	XX	5	-0.1	M	90	240	2.7	<b>3.8</b>	MR	G	G	G	
<b>CDC Spectrum</b>	<b>2023</b>	<b>103</b>	<b>58</b>	<b>XX</b>	<b>3</b>	<b>94</b>	<b>7</b>	<b>105</b>	<b>14</b>	<b>105</b>	<b>27</b>	<b>103</b>	<b>11</b>	<b>+0.3</b>	<b>M</b>	<b>85</b>	<b>240</b>	<b>2.9</b>	<b>3.7</b>	<b>I</b>	<b>G</b>	<b>G</b>	<b>F</b>	

1. Maturity: E= Early, M= Medium, L= Late
2. Standability: 1= completely upright, 9= completely lodging
3. Mycosphaerella Blight: 1= no disease, 9= completely blighted
4. Seed Coat Dimpling: VG= 0-5%, G= 6-20%, F= 21-50%
5. Disease Tolerance: I= intermediate, MR= moderately resistance, R= resistant
6. Green Seed Coat: G= 0-10%, F= 11-25%

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