

January 2014

Agdex 142/32-1

Varieties of Pulse Crops for Alberta

The Alberta Regional Variety Testing (RVT)Trials are a key source of information for the agriculture industry regarding the yield potential and field performance of new pulse varieties.

The trials are managed by a team of research experts to minimize variability. These trials provide unbiased, comprehensive information that helps producers make better cropping decisions and higher profits.

Variety testing

Agronomic and quality data collected at each location include seed yield, plant height, standability at physiological maturity, disease reaction and thousand seed weight. The RVT trials are arranged in a randomized complete block design. All tests have four replications per site. Varieties within each table are arranged in alphabetical order.

The check variety for each crop type is determined by the Crop Co-ordinator and displayed in bold at the top of the table. Cultivar yield data is shown as per cent of the check, and the station years of testing column is located beside the yield. Caution is advised when interpreting the data with respect to new varieties that have not been fully tested.

The CV stands for coefficients of variation (CV) in the trial and is expressed as a percentage. Large CVs mean a large amount of variation could not be attributed to differences between varieties. The lower the CV, the better the quality of data. Acceptable coefficient of variation for seed yield is 15 per cent.

There were 18 green and yellow pea sites established across Alberta and two sites in northeastern British Colombia. Sites in Alberta consisted of four green plus a check (CDC Patrick) and five yellow plus a check (CDC Meadow) cultivars. Only three green and four yellow variety trials failed due to various reasons.



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Nine chickpea varieties plus a check (CDC Frontier) were grown at Bow Island, Brooks, Lethbridge and Medicine Hat. All the trials were successfully harvested. Yield results for the trial at Medicine Hat were not added to the database due to high CV.

The year 2013 was a good one for growing lentil trials. Twenty varieties plus a check (CDC Redberry) were grown at Bow Island, Brooks, Lethbridge and Medicine Hat. Yield results for the trial at Medicine Hat were not added to the database due to high CV.

Wide row dry bean trials were grown at Bow Island, Lethbridge and Vauxhall, and the narrow row dry beans were grown at two sites, Lethbridge and Vauxhall. There were 12 varieties including checks in both trials and all grown under irrigation. The wide row locations had a complete set of data; however, only the Lethbridge narrow data set was included in the database.

The fababean regional trials were resumed in 2013 after five years of no trials. Four fababean varieties plus a check (Snowbird) were grown at nine locations across Alberta. Results of all the trials except the Barrhead site, which was hailed out, were added to the database.

And new crop, soybean, has been added to the Regional Variety Testing program this year. Sixteen soybean varieties plus a check (NSC Warren) were grown at eight funded and two volunteer sites. Seven sites were harvested; however, only five locations were added to the database. CVs for the other two trials were too high.

Plant Breeder's Rights

Varieties displaying the symbol \triangle are subject to Plant Breeder's Rights (PBR). Any unauthorized sale of seed of these varieties is an infringement under the legislation. Under PBR, producers are allowed to save seed of the variety for their own use, to plant on their own farms.

Acknowledgements

The hard work of all the people who seed, maintain, take field data, harvest and process grain samples from the variety trials must be acknowledged. The research organizations involved in the testing are as follows:

- Agricultural Research and Extension Council of Alberta
- Battle River Research Group
- Chinook Applied Research Association
- Farming Smarter
- Lakeland Agricultural Research Association
- MacKenzie Applied Research Association

- North Peace Applied Research Association
- Smokey Applied Research Demonstration Association
- Agriculture and Agri-Food Canada, Lacombe and Lethbridge Research Stations
- Agriculture and Rural Development, Research Stations in Brooks and Edmonton
- British Columbia Grain Producers Association.

As well, the hard work of the crop co-ordinators, Alberta Pulse Growers staff, Alberta Agriculture and Rural Development staff and pulse breeders who reviewed the results of the testing, updated diseases and other agronomic information is appreciated.

A sincere thank you goes also to the following:

- Alberta Pulse Growers Commission for contributing to the Pulse Science Cluster Project that is run under Agriculture and Agri-Food Canada's Growing Forward program
- Breeders and seed companies for paying testing fees (Alliance Seed Corporation, Crop Development Centre at University of Saskatchewan, Hadland Seed Farm Ltd. and Seed Net.)
- Association of Alberta Co-op Seed Cleaning Plants
- Alberta Seed Growers' Association

Finally, more than two thirds of the trials were grown at Alberta producers' fields, and their co-operation and dedication are sincerely appreciated as well.

Factsheet and data preparation co-ordinated by

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More information

Contact Alberta Ag-Info Centre Call toll free 310-FARM (3276)

Website: www. agriculture.alberta.ca

Variety tables

	So	uth	Cer	ast itral	Cer	est ıtral	Pe	ace			1	Agronomic	Character	istics
Variety	Site years	Yield %	Site years	Yield %	Site years	Yield %	Site years	Yield %	Total site years	Overall yield (%)	Maturity rating ¹	Vine length (cm)	TSW ² (g)	Standability³ (1 – 9)
Varieties tested in the 2013 tri	ials (Rela	tive Yield	as % of (CDC Mead	ow)									
CDC Meadow (kg/ha)		3821		4262		6082		5478		4868				
CDC Meadow		100		100		100		100	101	100	ш	82	209	3.6
AAC Peace River (A)	4	86	5	95	۲	97	9	96	16	96	VE	78	212	3.7
Abarth	œ	113+	10	104	ю	107	11	66	32	105	Σ	79	248	4.1
CDC Amarillo	œ	108	10	100	ю	114	11	109+	32	106+	Σ	86	222	3.4
CDC Saffron	13	108	14	101	4	100	16	101	47	103	Σ	84	236	4.3
AAC Lacombe (A)	4	124+	2	110	-	126	9	115+	16	116+	Σ	83	259	3.7
Fully Tested Varieties (Relativ	e Yield a:	s % of CD	C Meado	(M)										
Hugo 🕹	11	102	14	83-	5	06	17	96	47	93-	Σ	73	210	5.2
Stella 🌣 NR F	11	-92	14	-08	5	83-	15	81-	45	80-	Σ	95	213	3.9
Fully Tested Varieties (Relativ	e Yield a:	s % of Cu	tlass: 200	3 - 2011)										
Cutlass (kg/ha)		3243		3485		5665		4684		4292				
Cutlass	26	100	38	100	25	100	61	100	151	100	Σ	71	228	4
Agassiz 🕹	9	100	11	102	6	102	20	104	46	103	Σ	77	236	2.9
Argus 🕹	7	100	6	114+	ო	103	14	101	33	105+	Σ	89	227	4.1
CDC Centennial	Ð	101	12	66	6	104	14	100	40	101	ш	61	259	4.8
CDC Hornet	10	101	12	116+	9	110	15	103	43	107+	Σ	89	215	3.7
CDC Prosper NR	9	63	12	97	œ	97	19	98	45	-76	ш	73	149	4
CDC Treasure NR	9	96	12	105	ø	98	19	100	45	101	ш	81	217	3.5
DS-Admiral 🕹	13	97	18	108	13	86	24	104	69	102	Σ	68	246	3.1
Eclipse 🕹	17	103	27	103	20	66	33	103	86	102	Σ	64	255	3.2
Polstead 🕹	Ð	97	12	66	6	66	16	104	42	101	ш	62	262	3.7
Reward 🕹	D	86	12	106	6	102	13	101	39	101	Σ	76	248	2.5
SW Midas 🕹	10	103	17	106	11	91-	21	66	59	100	ш	65	213	3.1
Thunderbird	9	89	11	96	6	66	14	66	40	97	Σ	76	229	2.1
Remarks : Stella is a silage type CFIA; F = Forage type; XX = N	e pea; ∆: No data a	= Protect vailable.	ed by Plar	nt Breeder'	s Rights (I	PBR); ▲=	Applied f	or PBR pro	otection; A	= First year	entries (2013)); NR = Var	riety not re	gistered with
¹ Maturity: E = early, M = med Dimpling: VG = very good (0 -	ium, L = 5%), G =	Late; ² Thc = good (6	ousand Se - 20%), F	ed Weight = fair (21	t: g; ³ Stan - 50%); ⁶ G	idability: 1 ireen Seed	= erect, d Coat: G	9 = flat; ⁴ T = good (0	⁻ olerance to - 10%), F	o: P = poor, l = fair (11 - 25	⁼ = fair, G = . %).	good, VG =	= very goc	d; ⁵ Seed Coat

FIELD PEA -	≺ E	N N	0 0)	ntin	u e d									
	So	uth	Cen	ist tral	Cen	est ıtral	Pe	ice			Ă	gronomic	Character	stics
Variety	Site years	Yield %	Site years	Yield %	Site years	Yield %	Site years	Yield %	Total site years	Overall yield (%)	Maturity rating ¹	Vine length (cm)	TSW ² (g)	Standability ³ (1 – 9)
Fully Tested Varieties (Relativ	ve Yield a:	s % of Car	rera: 200	0 - 2005)										
Carrera (kg/ha)		2593		2926		5098		3986		3677				
Carrera 🕹	14	100	28	100	15	100	33	100	96	100	ш	53	257	4.6
CDC Bronco	11	91	14	102	ø	94	15	117	49	102	Σ	63	218	4.1
CDC Golden	11	101	14	105	œ	102	15	109	49	105	Σ	68	224	3.4
CDC Minuet	12	97	26	100	11	92	22	111	76	102	Σ	64	192	4.9
CDC Mozart	80	108	17	100	7	97	14	105	48	103	Σ	62	241	5.9
										i				

Remarks: Stella is a silage type pea; ⁽²⁾ = Protected by Plant Breeder's Rights (PBR); ▲ = Applied for PBR protection; A = First year entries (2013); NR = Variety not registered with CFIA; F = Forage type; XX = No data available.

¹Maturity: E = early, M = medium, L = Late; ²Thousand Seed Weight: g; ³Standability: 1 = erect, 9 = flat; ⁴Tolerance to: P = poor, F = fair, G = good, VG = very good; ⁵Seed Coat Dimpling: VG = very good (0 - 5%), G = good (6 - 20%), F = fair (21 - 50%); ⁶Green Seed Coat: G = good (0 - 10%), F = fair (11 - 25%).

FIELD PEA - YELLOW (continued)

			Tol	erance to ⁴		
	Powdery Mildew	Mycospharella Blight	Fusarium Wilt	Seed Coat Breakage	Seed Coat Dimpling⁵	Green Seed Coat ⁶
Varieties tested in the 2013 tr	ials (Relativ	e Yield as % of CD	C Meadow)			
CDC Meadow	VG	F	F	G	G	G
AAC Peace River (A)	VG	F	F	F	G	G
Abarth 🔺	VG	F	F	F	G	G
CDC Amarillo	VG	F	G	F	F	G
CDC Saffron	VG	F	F	G	F	G
AAC Lacombe (A)	VG	F	Р	G	F	G
Fully Tested Varieties (Relativ	e Yield as %	6 of CDC Meadow)			
Hugo 🙆	VG	F	F	G	F	F
Stella 🖉 NR F	VG	F	F	G	G	F
Fully Tested Varieties (Relativ	∕e Yield as %	6 of Cutlass: 2003	- 2011)			
Cutlass 🗅	VG	F	F	F	F	G
Agassiz 🕸	VG	F	F	G	VG	G
Argus 🕸	VG	F	F	F	F	G
CDC Centennial	VG	F	G	G	G	F
CDC Hornet	VG	F	F	F	F	G
CDC Prosper NR	VG	F	G	G	F	G
CDC Treasure NR	VG	F	F	G	F	F
DS-Admiral 🙆	VG	Р	F	F	G	F
Eclipse @	VG	F	F	G	F	G
Polstead @	VG	Р	Р	F	VG	F
Reward 🕸	VG	F	F	G	VG	F
SW Midas 🕸	VG	Р	F	G	G	G
Thunderbird	VG	F	F	G	VG	XX
Fully Tested Varieties (Relativ	e Yield as %	6 of Carrera: 2000	- 2005)			
Carrera 😃	Р	Р	F	F	G	XX
CDC Bronco	VG	F	F	G	G	G
CDC Golden	VG	F	F	G	G	G
CDC Minuet	VG	F	F	F	G	F
CDC Mozart	VG	F	F	G	G	F

Remarks: Stella is a silage type pea; \triangle = Protected by Plant Breeder's Rights (PBR); \blacktriangle = Applied for PBR protection; A = First year entries (2013); NR = Variety not registered with CFIA; F = Forage type; XX = No data available.

¹Maturity: E = early, M = medium, L = Late; ²Thousand Seed Weight: g; ³Standability: 1 = erect, 9 = flat; ⁴Tolerance to: P = poor, F = fair, G = good, VG = very good; ⁵Seed Coat Dimpling: VG = very good (0 - 5%), G = good (6 - 20%), F = fair (21 - 50%); ⁶Green Seed Coat: G = good (0 - 10%), F = fair (11 - 25%).

FIELD	PEA -	G R E	Z E											
	ŭ	4tic	Cen Cen	ist trai	Ň	est trai	Paa	٩				Adronomic Ch	aractoristic	ý
			5							I			ומו מררכוו זרור	2
Variety	Site years	Yield %	Site years	Yield %	Site years	Yield %	Site years	Yield %	Total site years	Overall yield (%)	Maturity rating ¹	Vine length (cm)	TSW ² (g)	Standability ³ (1 – 9)
Varieties tested	in the 2013	trials (Relat	tive Yield a	is % of CD	C Patrick)									
CDC Patrick		4420		4343		6232		4522		4688				
CDC Patrick	20	100	27	100	13	100	33	100	93	100	Σ	81	188	4.6
CDC Limerick	6	106	10	107+	ю	98	12	104	34	105+		79	211	3.8
CDC Pluto	14	100	14	94	5	91	19	96	52	-96	Σ	82	170	9
CDC Raezer	14	95	14	116+	5	103	19	104	52	105	Σ	68	227	4.2
CDC Tetris	14	104	14	111+	5	98	19	106	52	106		91	215	4.4
Fully Tested Va	rieties (Relat	ive Yield as	s % of Coo	per: 2004	- 2012)									
Cooper (kg/ha)		4111		3843		5979		4793		4609				
Cooper 🕹		100		100		100		100		100	_	75	270	3.5
CDC Sage	2	-62	œ	83-	œ	81-	15	85-	36	82	Σ	72	198	3.1
CDC Striker	2	96	12	108	5	104	22	95-	44	100	Σ	70	253	2.9
Mendel 🕹	9	85-	11	95	4	92	17	-06	38	91	Μ	78	205	3.9
Remarks: CDC 1	Fetris is an Es	space type v	with block)	/ seed sha	pe; ∆= Pı	rotected by	y Plant Bre	eder's Riç	ghts (PBR)); XX = No d	ata available.			

¹Maturity: E = Early, M = Medium, L = Late; ²Thousand Seed Weight: g; ³Standability: 1 = Erect, 9 = Flat; ⁴Tolerance to: P = Poor, F = Fair, G = Good, VG = Very Good; ⁵Seed Coat Dimpling: VG = Very Good (0 - 5%), G = Good (6 - 20%), F = Fair (21 - 50%).

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FIELD PEA -	GREEN	(contin	ued)			
			Tolera	nce to ⁴		
Variety	Powdery Mildew	Mycospharella Blight	Fusarium Wilt	Bleaching	Seed Coat Breakage	Seed Coat Dimpling⁵
Varieties tested in the 2013 tr	ials (Relative Yi	eld as % of CDC Pa	trick)			
CDC Patrick	VG	F	G	G	G	G
CDC Patrick	VG	F	F	G	VG	G
CDC Limerick	VG	F	F	G	G	G
CDC Pluto	VG	F	G	G	G	G
CDC Raezer	VG	F	G	G	G	G
CDC Tetris	VG	F	G	G	G	G
Fully Tested Varieties (Relativ	ve Yield as % of	Cooper: 2004 - 201	2)			
Cooper (kg/ha)	VG	F	F	G	F	G
Cooper 💩	VG	F	G	G	VG	G
CDC Sage	Р	F	G	G	G	F
CDC Striker	VG	F	F	G	F	G
Mendel @	Р	F	G	G	G	F

Remarks: CDC Tetris is an Espace type with blocky seed shape; \triangle = Protected by Plant Breeder's Rights (PBR); XX = No data available.

¹Maturity: E = Early, M = Medium, L = Late; ²Thousand Seed Weight: g; ³Standability: 1 = Erect, 9 = Flat; ⁴Tolerance to: P = Poor, F = Fair, G = Good, VG = Very Good; ⁵Seed Coat Dimpling: VG = Very Good (0 - 5%), G = Good (6 - 20%), F = Fair (21 - 50%).

DRY BEANS - NARROW ROW

Variety	Туре	Site years 1997-2013	Yield (% of check)	Days to bloom ¹	Days to maturity	TSW ² (g)	Plant height	Lodging ³ (1-5)	Growth habit ⁴
AC Black Diamond (kg/ha)			2898						
AC Black Diamond	Black Shiny	18	100	56	102	247	38	2.4	П
CDC Blackcomb (A)	Black Matte	2	89	64	-1	200	39	1.8	П
Island (kg/ha)			2838						
Island	Pinto	8	100	60	103	322	43	2.9	П
2537-12 (A)	Pinto	1	67	53	-6	429	35	1.8	П
CDC WM-2	Pinto	5	72	60	1	326	43	2.5	Ш
L09PT129 (A)	Pinto	1	111	58	-3	373	44	1.8	II
Medicine Hat	Pinto	4	96	63	4	313	46	2	Ш
Winchester	Pinto	5	80	58	2	302	45	2.6	II
AC Resolute (kg/ha)			2602						
AC Resolute	Great Northern	14	100	54	102	323	40	2.4	II
AAC Tundra	Great Northern	2	110	64	-4	342	43	2	II
AC Polaris	Great Northern	14	117	58	4	293	41	3.5	II
L08GN743 (A)	Great Northern	1	115	52	-8	349	45	2.3	II
AC Redbond (kg/ha)			2569						
AC Redbond	Small Red	17	100	51	100	303	39	2.3	II
CDC Sol (kg/ha)			1333						
CDC Sol	Yellow	4	100	51	114	347	32	2.0	I
Viva (kg/ha)			2307						
Viva	Pink	15	100	52	99	249	32	3.5	III

Remarks: A = First year entries; ¹Days to bloom from seeding; ²Thousand Seed Weight; ³Lodging: 1 = erect, 5 = flat. ⁴Growth Habit: I = determinate bush, II = indeterminate bush, III = indeterminate prostrate.

DRY BEANS - WIDE ROW

Variaty	Туре	Site years	Yield (% of check)	Days to	Days to	TSW ²	Plant	Lodging ³	Growth
AC Black Diamond (kg/ba)	Type	1557-2015	2079	biooni	maturity	(9/	neight	(1-5)	
			29/0						
AC Black Diamond	Black Shiny	42	100	57	104	261	39	2.1	П
CDC Blackcomb	Black Matte	6	79	63	-1	171	35	1.8	
Island (kg/ha)			3642						
Island	Pinto	16	100	57	101	364	41	2.8	II
CDC WM-2	Pinto	11	75	60	0	359	41	1.5	II
Medicine Hat	Pinto	9	87	68	3	341	41	1.3	II
Othello	Pinto	8	90	58	0	353	36	3.5	III
Winchester	Pinto	16	86	55	0	336	40	2.3	II
AC Resolute (kg/ha)			2814						
AC Resolute	Great Northern	22	100	53	101	338	42	2.3	II
AAC Tundra	Great Northern	6	116	61	-3	340	39	2.3	II
AC Polaris	Great Northern	25	116	57	4	316	40	3.5	II
L08GN743 (A)	Great Northern	3	121	52	-3	364	41	2.7	II
AC Redbond (kg/ha)			3203						
AC Redbond	Small Red	39	100	53	101	316	41	2.4	Ш
CDC Sol (kg/ha)			1936						
CDC Sol	Yellow	9	100	66	105	365	32	1.0	I
Myasi	Yellow	6	91	67	6	342	31	1.0	<u> </u>
Viva (kg/ha)			3090						
Viva	Pink	39	100	55	104	255	36	3.6	III

Remarks: A = First year entries; ¹Days to bloom from seeding; ²Thousand Seed Weight; ³Lodging: 1 = erect, 5 = flat. ⁴Growth Habit: I = determinate bush, II = indeterminate bush, III = indeterminate vine.

LENTILS Disease Tolerance 6 Agronomic Characteristics Station Plant TSW 2 Overall Years of height Maturity Cotyledon Seed coat Market Class Variety Yield Testing (g) (cm) rating ³ colour ⁴ colour ⁵ Ascochyta Anthracnose Varieties tested in the 2013 trials CDC Redberry (kg/ha) 3116 CDC Redberry¹ 100 22 43 36 Е R GR G G 31 R G G Extra small red CDC Impala (CL) 95 12 34 Е GR Е CDC Imperial (R; CL) 82* 15 30 37 R GR/BR G G **CDC** Redbow 104 12 32 35 Е R GR G G **CDC** Rosebud 12 30 35 Е R G G 100 Т Е **CDC** Rosetown 102 15 31 38 R GR G G 3 31 R G G CDC Rosie (A) 123 34 FM GR **CDC Ruby** 96 10 29 33 Е R GR G G Small red 95 10 E-M R GR G F CDC Dazil (CL) 36 36 CDC Imax (CL) 97 11 45 37 E-M R GR G F CDC Maxim (R; CL) 104 12 42 35 E-M R GR G G **CDC Redcliff** 112* 10 39 36 E-M R GR G F G **CDC** Redcoat 100 12 42 35 Е R GR G G CDC Scarlet (A) 3 40 ΕM R GR F 124 36 7 G G Large red CDC KR-1 109 54 39 Μ R GR Υ Small green CDC Imvincible (CL) 100 11 34 36 Е G G G Medium green CDC Imigreen (CL) 78* 7 60 41 Μ Υ G G VP CDC Impress (R; CL) 86* 7 51 37 Μ G G Ρ Y Large green CDC Greenland (R) 82* 7 66 37 M-L Υ G G VP CDC Impower (CL) 77* 7 71 37 ML Y G G VP 7 G F VP CDC Improve (R; CL) 74 39 Y 83 Μ **Previously tested varieties** Extra small red CDC Robin (R) 87* 15 28 34 Е R BR G G 85* G Ρ Small red CDC Blaze (R) 10 38 30 E-M R GR **CDC** Cherie 108 3 41 35 E-M R G G F 8 Е R GR G Ρ CDC Impact (R; CL) 84* 36 37 CDC Rouleau (R) 106 5 37 37 Μ R GR G G VP VP Crimson (R) 75 10 39 27 Е Υ RR Y VP Е G G Small green CDC Milestone (R) 101 18 39 32 CDC Viceroy (R) 107 13 35 Е Y G G 33 G VP 5 Е G VP Eston (R) 89 34 35 Υ French green CDC Peridot (CL) 116 1 37 ΧХ Е Y MRB F Ρ

Remarks: Weight, diameter and thickness of lentil seeds will vary depending on environmental conditions and agronomic factors. Note yield results for the new varieties (2013; A) are not significantly different, due to limited years of testing. All four trials: Bow Island, Brooks, Lethbridge and Medicine Hat were grown in Area 1. R = Registered with CFIA; CL=Clearfield variety; XX = No data.

ΧХ

Х

Υ

GR/DT

VP

VP

40

1

Pardina

Spanish brown

106

¹Yields are reported relative to CDC Redberry. CDC Redberry belongs to Small Red Market Class. *Seed yields are statistically significant from that of CDC Redberry at p=0.05 level. No symbol after the yield figure indicates that there is no statistical difference. ²Thousand Seed Weight: g; ³Maturity: E = Early, M = Medium, L = Late, VL = Very Late. ⁴Cotyledon Color: R = Red, Y = Yellow, G = Green; ⁵Seed Coat Color/Patterns: G = Green, GR = Grey, BR = Brown, FG = French Green, T = Tan, MRB = Marbled, DT = Dotted; ⁶Disease resistance: VP = Very Poor, P = Poor, F = Fair and G = Good.

FABABEAN

Variety	Overall Yield	Station Years of Testing	Туре	Relative maturity ¹	Plant height (cm)	Thousand seed weight (g)	Flower colour ²
Varieties tested in th	e 2013 trials						
Snowbird (KG/HA)	7650						
Snowbird @	100	22	Zero Tannin	E	92	480	w
FB18-20	103	8	Tannin	Μ	77	670	С
Imposa 🕸	99	8	Zero Tannin	L	80	540	W
Malik	98	8	Tannin	Μ	80	610	С
Snowdrop @	85-	8	Zero Tannin	E	84	297	W
Fully Tested Varieties	s: 2000-2007						
Earlibird @ KG/HA ¹	7300						
Earlibird 📣	100	Fully Tested	Tannin	E	93	520	С
Ben 🗅	112+	Fully Tested	Tannin	E	101	580	С
CDC Blitz R	102	Fully Tested	Tannin	ML	96	460	С
CDC Fatima R	97	Fully Tested	Tannin	Μ	92	530	С
Cresta	96	Fully Tested	Zero Tannin	Μ	86	590	W
Scirocco	106	Fully Tested	Tannin	ML	89	580	С

Remarks: All colored flower types have seed coats that contain tannins and may be suitable for export food markets if seed size and quality match customer demand. Varieties with more than ten site years are Fully Tested. \square = Protected by Plant Breeders' Rights (PBR); R = Registered with CFIA.

New varieties: Malik (FB9-4) and FB18-20.

¹Maturity: E = early, M = medium, ML = medium late, L = late; ²Flower Colour: W = white flower, zero tannin, C = colored flower, tannin.

СНІСКРЕА

				Agro	nomic Charac	teristics	
Variety	Туре	Overall yield¹	Station Years of Testing	TSW ²	Maturity rating ³	Plant height (cm)	 Tolerance to Ascochyta ⁴
Varieties tested in the 2	013 trials						
CDC Frontier (kg/ha)		4699					
CDC Frontier ¹	Kabuli	100	25	365	L	43	F
CDC Cabri	Desi	93*	21	330	E	45	F
CDC Corinne	Desi	113	6	255	Μ	47	F
CDC Cory	Desi	103	6	290	Μ	48	F
CDC Vanguard	Desi	95	9	237	ML	47	F
Amit (R)	Kabuli	90*	25	270	L	44	F
CDC Alma	Kabuli	84*	10	396	ML	39	VP
CDC Leader	Kabuli	100	6	409	ML	42	F
CDC Luna	Kabuli	85*	10	383	ML	41	Р
CDC Orion	Kabuli	89*	10	460	ML	42	Р
Previously tested varieti	es						
CDC Chichi	Kabuli	77	8	340	М	47	Р
CDC Chico	Kabuli	87	8	250	E	46	VP
CDC Diva	Kabuli	71*	15	450	L	41	F
CDC Xena	Kabuli	72*	15	450	L	41	VP
CDC Yuma	Kabuli	73*	15	420	L	45	Р
Sanford	Kabuli	69*	15	410	L	47	VP

Remarks: Note yield results for some varieties are not significantly different, due to limited years of testing. All four trials: Bow Island, Brooks, Lethbridge and Medicine Hat were grown in Area 1.

¹Yields are reported relative to CDC Frontier. *Seed yields are statistically significant from that of CDC Frontier at p=0.05 level. No symbol after the yield figure indicates that seed yields are statistically comparable. ²Thousand Seed Weight: g; ³Maturity Rating: E = Early, M = Medium, ML = Medium Late, L = Late; ⁴Tolerance to Ascochyta: VP = Very Poor, P = Poor, F = Fair.

SOYBEANS

					А	gronomic (Characteristics		
			Station			Plant			
Variaty	Type	Overall viold ¹	years of	Days to	Pod beight ²	height	Days to	TSW⁴ (a)	Relative
Variation tastad in the 20	19pe	yield	testing	nowening	r ou neight		maturity	(9/	30003, (ID)
NSC Warren (kg ha')		3028							
NSC Warren	RR	100	5	48	13	55	118	126	3600
900Y61	RR	80	5	49	13	54	119	158	2870
900Y71	RR	99	5	49	14	55	116	159	2850
CFS12.3.02	RR2Y	121	5	53	18	57	119	146	3100
CFS13.2.02	RR2Y	92	5	48	17	62	118	171	2650
McLeod	RR2Y	110	5	51	17	65	117	163	2780
NSC Moosomin	RR2Y	98	5	48	13	48	112	148	3060
NSC Reston	RR2Y	110	5	48	14	56	114	143	3170
P001T34	RR	66*	5	48	10	41	107	143	3170
Pekko	RR2Y	94	5	53	16	57	117	155	2920
Sampsa	RR2Y	93	5	51	14	55	120	152	2980
SC2380	RR2Y	98	5	48	15	61	119	150	3020
TH 29002	RR	80*	5	49	13	53	114	131	3460
TH 32004	RR2Y	100	5	51	14	58	118	141	3210
TH 33003	RR2Y	117	5	48	16	67	117	143	3170
TH 33005	RR2Y	95	5	51	16	61	120	149	3040
Vito	RR2Y	87	5	48	13	68	118	146	3100

Remarks: Straight combining is the commonly used method of harvest. Swathing soybeans can result in excessive field losses (up to 25%) due to shattering. Approximately four beans or one to two pods per square foot represent a yield loss of "one bushel" per acre. In 2013, only five locations of a possible 10 had soybeans that were harvestable. These locations were: Bow Island, Brooks, Fahler, Medicine Hat and Vegreville.

¹Yields are reported relative to NSC Warren. *Indicates that seed yields are statistically significant from that of NSC Warren. No symbol after the yield figure indicates that there is no statistical difference. ²Distance from the ground level to lowest pod. ³Maturity - average days for the Brooks and Bow Island trials. ⁴Thousand Seed Weight, g.