January 2018 Agdex 142/32-1

# Varieties of Pulse Crops for Alberta

This factsheet provides information on pulse variety performance within Alberta and northeastern British Columbia. Important agronomic characteristics and disease tolerance information are provided for varieties of field pea, chickpea, lentil, fababean, dry bean and soybean.

The Alberta Regional Variety Testing program for pulse crops is co-ordinated by the Alberta Pulse Growers Commission (APGC) and Alberta Agriculture and Forestry (AAF). Funding for the program is provided by Agriculture Agri-Food Canada (Growing Forward II), AAF, APGC and entry fees (private companies) for the varieties being tested.

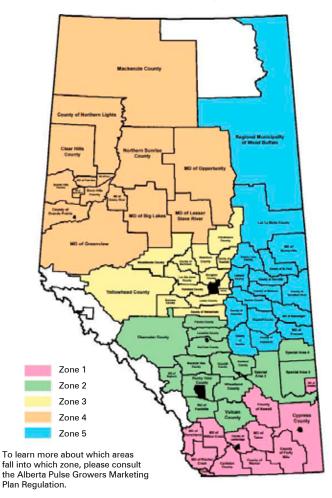
Data for this publication are contributed by numerous applied research associations, Prairie Grain Development Committee and AAF.

## **Varieties**

Variety choice is one of the important decisions any crop producer makes, and the choice should never be based solely on the genetic yield potential of a variety. Producers are encouraged to select varieties based on local growing conditions and planned end use.

As well, growers should consider other factors such as plant height, standability (lodging) at physiological maturity and disease/pest resistance when selecting which variety to grow. Using long-term, multi-site data will lead to the selection of the best, yield-stable varieties.

#### APG Zone Map





The yield comparison tables in this factsheet have several features:

- Overall actual yield of the standard check (kg/ha) based on all data available to the testing program is provided along with the number of station years of testing.
- Actual yield of the standard check in each growing area for field pea is reported.
- Overage yield of each variety is expressed relative to the standard check. Significant statistical differences relative to the standard check are indicated.

Yields that are statistically higher (+) or lower (-) than the check are indicated. No symbol after the yield figure indicates that there is no statistical difference from the check.

Producers should pay particular attention to data on new varieties that have not been fully tested. If a large difference from the check is reported but is not significant, it could mean that yields have varied widely and/or there are not enough data to prove a statistical difference. With additional years of testing, the reported yield differences will become more accurate.

The following trials were grown in 2017:

- 18 green and yellow pea sites established across Alberta and 1 site in Fort St. John, British Colombia
- 13 fababean trials
- 4 chickpea trials at Bow Island, Brooks, Lethbridge and Medicine Hat
- 6 lentil trials at Bow Island, Brooks, Lethbridge, Medicine Hat, Oyen and Strathmore
- 3 wide row dry bean trials at Bow Island, Lethbridge and Vauxhall
- 1 narrow row dry bean in Lethbridge
- 4 soybean trials established at Bow Island, Brooks, Lethbridge and Medicine Hat

### **More information**

For additional information, including varieties not listed in this factsheet, call Alberta Agriculture and Forestry's Ag-Info Centre toll-free at 310-FARM (3276). For other cropping information, refer to the website at www.agriculture.alberta.ca.

# **Variety tables**

Crop	Page
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Dry bean – narrow row	5
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Lentil	7
Chickpea	8
Soybean	9
Fababean	10

FIELD PE	Α –	YEL	L O	W																	
							Α	rea:					Agr	onomic C	Charact	eristics:	Disease Tolerance: <sup>4</sup>				
		Overall		1		2		3		4	!	5				_					
		Station												Vine							
	Overall	Years of			Yield	Site	Yield		Yield		Yield		Maturity	•		Standability <sup>3</sup>	Mycosphae-				Green Seed
Variety	Yield	Testing	(%)	Years	(%)	Years	(%)	Years	(%)	Years		Years	Rating <sup>1</sup>	(cm)	(g)	(1 - 9)	rella Blight	Wilt	Breakage	Dimpling <sup>5</sup>	Coat <sup>6</sup>
					Var	ieties te		the 2017	trials (	ield and	d agrono	mic data	a only direct	ly compa	rable to	CDC Amarillo)					
CDC Amarillo (kg/ha)	5166		3606		4650		6864		5265		7431										
CDC Amarillo	100	91	100	16	100	30	100	14	100	25	100	6	М	80	226	2.6	F	G	F	F	G
AAC Barrhead 😃	98	28	95	5	98	8	98	5	102	8	94	2	Е	84	232	3	F	F	G	G	XX
AAC Carver	106+	28	106	5	105	8	105	5	106+	8	107	2	Е	86	240	3.4	F	F	G	G	XX
AAC Chrome (A) NR ▲	107+	14	114+	3	110	5	104	2	104	3	94	1	M - L	71	234	3.9	F	Р	G	G	XX
AAC Lacombe 😃	104+	61	106+	11	100	21	110	8	105	17	98	4	М	75	256	2.4	F	Р	G	F	G
CDC Athabasca (A) 🗐	93-	14	96	3	91-	5	102	2	90	3	86	1	М	79	282	2.6	F	F	F	F	G
CDC Canary (A) NR ▲	100	14	108	3	103	5	97	2	92	3	95	1	Е	80	239	3.4	F	F	G	F	G
CDC Meadow	96-	77	97	13	100	25	89-	12	96-	22	91-	5	М	81	203	3.9	F	F	G	G	G
CDC Spectrum (A) 🐽	101	14	106	3	101	5	108	2	94	3	100	1	М	78	238	2.5	F	F	G	G	F
LGPN4903 (A) NR	101	14	104	3	106	5	96	2	99	3	86	1	М	83	235	3.2	F	G	XX	XX	XX
· · · · · · · · · · · · · · · · · · ·						Previou	sly teste	d variet	ies (Yiel	d and ag	gronomic	: data or	nly directly o	omparab	le to CI	OC Amarillo)					
AAC Peace River	92-	49	89-	8	93-	16	93	6	97	16	73	3	VE	68	217	3.8	F	F	F	G	G
Abarth ®	98-	49	101	8	106	17	88-	7	94	14	89	3	М	77	249	3.6	F	F	F	G	G
CDC Inca ®	104	28	101	5	98	7	112+	5	104	9	109	2	М	85	232	2.2	F	F	G	G	F
LN4228 @	93-	45	90-	8	95	13	89	7	95	14	93	3	М	69	254	2.1	F	F	F	F	G
					Fu	IIv teste	d variet	ies: 2012	2 - 2014	(Yield ar	nd agron	omic da	ta only direc	tly comp	ared to	CDC Meadow)					
CDC Manday (kg/ha)	4000		2042			,				(110144	J	oo uu	ta only alloc	y 00p		020044011,					
CDC Meadow (kg/ha)	4982		3943		4277		6160		5316		6689		N.4	01	207	2.7	F	F	^	^	•
CDC Meadow	100	47	100	0	100	10	100	7	100	12	100	2	M	81	207	3.6	F F	F	G G	G F	G
CDC Saffron	103 93-	47 47	110	8 7	103 87-	16 15	99 91	7 8	101 96	13 14	101 80-	3	M M	84 73	236 210	4.3 5.2	F F	F	G	F	G F
Hugo 🖎			104	7				8				3				3.9	F	F	G	=	F
Stella  NR F	80-	45	75-		80-	15	84-		80-	12	78-		<u>M</u>	95	213		F	F	G	G	<u> </u>
						Fully tes	sted var	ieties: 20	003 - 20	11 (Yield	and agr	onomic	data only di	rectly con	nparab	le to Cutlass)					
Cutlass (kg/ha)	4485		3388		3503		5654		4816		3932										
Cutlass †	100		100		100		100		100		100		М	71	228	4.1	F	F	F	F	G
Agassiz 🗘	103	43	99	5	103	10	102	8	104	19	XX	XX	М	77	237	2.9	F	F	G	VG	G
CDC Hornet	107+	43	99	6	111+	14	111+	8	102	13	128	2	М	89	215	3.7	F	F	F	F	G
CDC Prosper	97-	44	90	4	97	12	97	9	99	18	94	1	Е	73	150	3.9	F	G	G	F	G
CDC Treasure	100	44	96	4	103	12	99	9	100	18	116	1	Е	80	217	3.4	F	F	G	F	F
Thunderbird	97	37	88	5	99	10	99	9	98	13	XX	XX	М	76	229	2.1	F	F	G	VG	XX
					Fı	ılly teste	ed varie	ties: 200	0 - 2005	(Yield a	nd agror	nomic da	ata only dire	ctly comp	oarable	to Carrera)					
Carrera (kg/ha)	4126		2913		2779	•	5248		4681	-	4016		•			•					
Carrera	100		100		100		100		100		100		Е	54	257	4.7	Р	F	F	G	XX
CDC Golden	105	36	99	5	109	12	99	7	105	11	XX	XX	M	70	223	3.5	F	F.	G	G	G

Remarks: Stella is a silage type pea. All the yellow pea varieties listed in the table are Powdery Mildew resistant except Carrera that is suceptible. 

= Applied for PBR protection. A = First year entries (2017). NR = Variety not registered with CFIA.

= Forage type. XX = Insufficient data to describe. 

= Protected by Plant Breeder's Rights (PBR).

Remarks: Stella is a silage type pea. All the yellow pea varieties listed in the table are Powdery Mildew resistant except Carrera that is suceptible. 
A = Applied for PBR protection. A = First year entries (2017). NR = Variety not registered with CFIA. F = Forage type. XX = Insufficient data to describe. 
Protected by Plant Breeder's Rights (PBR).

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

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

FIELD PE	A –	GRE	ΕN																		
							Α	rea:					Agı	ronomic (	Charact	eristics:		Dise	ease Toleran	ce:4	
	0 "	Overall Station	Vi-I-I	1	Vi-1-I	2	_	3	V: -1-I	4	V:-I-I	5	Maturity	Vine	TCM <sup>2</sup>	Cham dahilib 3	Maranhar	F		CI	Seed Coat
Variety	Overall Yield	Years of Testing	Yield (%)	Site Years	Rating <sup>1</sup>	Length (cm)	(q)	Standability <sup>3</sup> (1 - 9)	Mycosphae- rella Blight	Fusarium Wilt	Bleaching	Seed Coat Breakage	Dimpling <sup>5</sup>								
	110.0		(,,,	7 041 0											٠,,	CDC Limerick)	10114 211 <b>g</b> 111		2.0009	2. ounage	
CDC Limerick (kg/ha)	4764		3355		4497		6246		4672		6931		j			•					
CDC Limerick	100	89	100	15	100	28	100	14	100	26	100	6	M	77	210	3.2	F	F	G	VG	G
AAC Comfort (A) ▲	99-	13	104	3	99	4	97	2	100	3	86	1	M - L	77	244	3.7	F	F	G	XX	F
AAC Royce	96-	40	106	8	94	9	92	6	98	14	79	3	M	67	247	4.1	F	F	G	F	F
CDC Forest (A) ▲	111+	13	130	3	107	4	108	2	102	3	102	1	М	81	228	2.6	F	F	G	G	G
CDC Spruce (A) 🐽	104	13	103	3	106	4	110	2	95	3	115	1	M	82	243	2.8	F	F	G	G	F
LRP1424 NR (A)	107	13	124	3	108	4	101	2	97	3	94	1	M	81	209	3.1	F	F	G	G	G
						Previou	sly teste	ed variet	ies (Yiel	d and a	gronomi	c data o	nly directly o	comparab	le to C	DC Limerick)					
AAC Radius	92-	44	94	8	90-	11	88-	6	94-	16	87	3	M	76	217	3.6	F	F	G	G	G
CDC Greenwater	106+	42	106	8	109	11	105	6	106+	14	97	3	L	74	230	2.8	F	G	G	F	F
						lly teste		ies: 2013			_	omic da	ita only direc	ctly comp	arable	to CDC Patrick)					
CDC Patrick (kg/ha)	4732		5083		4031		6242		4305		6049										
CDC Patrick	100	109	100	16	100	34	100	16	100	32	100	10	M	79	186	4.4	F	G	G	G	G
CDC Pluto	96-	52	101	8	96	17	85-	8	100	16	92	3	M	82	170	6	F	F	G	G	G
CDC Raezer	105	52	91	8	110	17	98	8	107	16	116	2	M	89	227	4.2	F	G	G	G	G
CDC Tetris	106	52	102	8	109+	17	93	8	110+	16	115+	3	L	91	215	4.4	F	G	G	G	G
					ı	fully tes	sted vari	ieties: 20	004 - 201	12 (Yield	and agr	onomic	data only di	rectly cor	nparab	le to Cooper)					
Cooper (kg/ha)	4724		4947		3672		5977		4835		4962										
Cooper 🕸	100	121	100	18	100	38	100	18	100	36	100	11	L	76	270	3.6	F	F	G	F	G
CDC Sage	82-	31	79	3	81-	8	82-	7	84-	13	XX	XX	M	75	197	3.3	F	G	G	VG	G
CDC Striker	96-	39	92	3	109	10	104	5	89-	21	XX	XX	M	72	255	3	F	G	G	G	G
Mendel	91-	38	75-	3	95	12	89-	6	91-	15	95	2	М	78	205	3.9	F	F	G	F	G

**Remarks**: CDC Tetris is an Espace type with blocky seed shape. All the green pea varieties listed in the table are Powdery Mildew resistant except CDC Striker that is succeptible. A = First year entries (2017). XX = Insufficient data to describe; † = Flagged for removal. ▲ = Applied for PBR protection. ② = Protected by Plant Breeder's Rights (PBR).

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 BEAN - N	NARROW R	O W							
							Plant		
		Site Years	Overall	Days to	Days to	$TSW^2$	Height	Lodging <sup>3</sup>	Growth
Variety	Type	1997 - 2017	Yield	Bloom <sup>1</sup>	Maturity	(g)	(cm)	(1 - 5)	Habit⁴
Varietie	s tested in the 2017	trials (Yield and a	agronomic da	ta only dire	ctly compa	rable to t	he checks	<u>)</u>	
AC Black Diamond (kg/ha)			3239						
AC Black Diamond	Black Shiny	21	100	57	103	256	37	2.3	II
AAC Black Diamond 2	Black Shiny	5	105	60	1	265	35	1.8	II
CDC Blackstrap (A) 🐽	Black Matte	1	107	52	-11	251	39	2.5	II
Island (kg/ha)			4439						
Island	Pinto	11	100	56	101	349	42	2.7	II
AAC Burdett	Pinto	6	92	58	-4	381	42	1.3	II
AAC Explorer	Pinto	2	78	50	-8	390	39	2.6	II
AAC Tundra (kg/ha)			4685						
AAC Tundra	<b>Great Northern</b>	7	100	54	97	372	45	2.4	II
AAC Whitehorse	Great Northern	6	107	53	-2	394	44	2.4	II
AAC Whitestar	Great Northern	3	96	48	-7	386	49	2	II
Prev	riously tested varieti	ies (Yield and agro	onomic data (	only directly	y comparab	le to the	checks)		
AC Black Diamond (kg/ha)			3174						
AC Black Diamond	Black Shiny	20	100	57	103	253	36	2.3	II
CDC Blackcomb	Black Matte	6	78	64	1	186	36	1.3	<u>II</u>
Island (kg/ha)			4155						
Island	Pinto	10	100	56	102	344	42	2.7	II
CDC Marmot	Pinto	5	89	55	-6	419	34	2.2	II
CDC WM 2 😃	Pinto	8	80	56	3	350	41	2.4	II
Medicine Hat < <p></p>	Pinto	8	99	62	4	342	44	2	II
Winchester	Pinto	5	80	58	7	302	45	2.1	<u>II</u>
AAC Tundra (kg/ha)			4559						
AAC Tundra	<b>Great Northern</b>	6	100	54	98	365	44	2.4	II
AC Polaris	Great Northern	14	76	58	5	329	35	3.4	II
AC Resolute	Great Northern	17	68	51	-2	353	40	2.2	II
AC Redbond (kg/ha)			2658						
AC Redbond	Small Red	16	100	51	101	296	38	2.5	II
CDC Sol (kg/ha)			1887						
CDC Sol 😃	Yellow	6	100	59	111	385	33	1.6	I
Viva (kg/ha)			2380						
Viva	Pink	13	100	52	100	252	30	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. XX - Insufficient data to describe. **②** = Protected by Plant Breeder's Rights (PBR).

#### DRY BEAN - WIDE ROW

Variety         Type         Sle Years 1997 - 2017         Oyer all Bloom								Plant		
Varieties tested in the 2017 trials (Yield and agronomic data only directly comparable to the checks)  AC Black Diamond (kg/ha)  AC Black Diamond Black Shiny 42 100 57 102 265 38 2.2 II  AAC Black Diamond 2 Black Shiny 9 101 58 1 256 37 2.3 II  Island (kg/ha)  Island (kg/ha)  Sarah Pinto 23 100 56 99 369 41 3 II  AAC Black Diamond Pinto 9 101 55 6 6 354 44 2.2 II  AAC Burdett Pinto 9 101 55 6 6 354 44 2.2 II  AAC Explorer Pinto 4 90 52 -3 355 37 2.8 II  AAC Explorer Pinto 9 101 55 6 6 354 44 2.2 II  AAC Explorer Pinto 9 101 55 6 6 354 44 2.2 II  AAC Explorer Pinto 9 101 55 7 2 96 348 42 2.9 II  AAC Tundra (kg/ha)  AAC Tundra Great Northern 12 98 51 0 369 43 2.8 II  AAC Whitestar Great Northern 12 98 51 0 369 43 2.8 II  AAC Whitestar Great Northern 12 96 51 1 348 43 2.5 II  AC Resolute Great Northern 12 96 51 1 348 43 2.5 II  CDC Sol (kg/ha)  CDC Sol (\(\chi_{\explorer}\) Yellow 16 100 55 102 407 33 1.5 I  AAC Y012 Yellow 4 108 52 -2 391 37 1.8 I  AAC Y012 Yellow 4 91 54 -1 334 34 2.3 I  L12CB004 (kg/ha)  E12CB004 (kg/ha)  Prevlously tested varieties (Yield and agronomic data only directly comparable to the checks)  AC Black Diamond (kg/ha)  Black Shirry 40 100 57 103 265 38 2.2 II  CDC Black Diamond Black Shirry 40 100 57 103 265 38 2.2 II  CDC Black Diamond Black Shirry 40 100 57 103 369 41 3 II  Sland (kg/ha)  Island (kg/ha)  Black Matte 11 79 62 0 178 35 1.8 II  Bland (kg/ha)  Black Matte 11 79 62 0 178 35 1.8 II  AC CT Undra (kg/ha)  AC Tundra (kg/ha)  AC Tundra (kg/ha)  AC Tundra Great Northern 13 100 52 97 349 42 2.9 II  AC CT Undra (kg/ha)  AC Tundra (kg/ha)  AC Tundra (kg/ha)  AC Tundra Great Northern 13 100 52 97 349 42 2.9 II  AC Redbond (kg/ha)  AC Tundra (kg/ha)  AC Tundra (kg/ha)  AC Tundra Great Northern 13 100 52 70 349 34 2.1 II  AC Redbond (kg/ha)  AC Redbond Small Red 29 100 52 100 319 40 2.4 II  AC Redbond (kg/ha)  AC Redbond Yellow 1			Site Years	Overall	Days to	Days to	$TSW^2$	Height	Lodging <sup>3</sup>	
AC Black Diamond (kgha)  AC Black Diamond 2  Black Shiny 42  100 57  102 265 38  2.2 II  AAC Black Diamond 2  Black Shiny 9 101 58  1 256 37  2.3 II  Island (kg/ha)  Island Pinto 23  100 56 99 369 41  3 II  AAC Bufett Pinto 9 101 55 -6 354  AAC Bufett Pinto 9 101 55 -6 354  AAC Bufett Pinto 4 90 52 -3 355  37 2.8 II  AAC Explorer Pinto 4 90 52 -3 355  37 2.8 II  AAC Tundra (kg/ha)  AAC Tundra (kg/ha)  AAC Tundra (kg/ha)  AAC Tundra Great Northern 15 100 52 96 348 42 2.9 II  AAC Mittebrose Great Northern 12 98 51 0 369 43 2.8 II  AAC Whitebrose Great Northern 12 96 51 1 348 43 2.5 II  AAC Resolute Great Northern 12 96 51 1 348 43 2.5 II  CDC Sol (kg/ha)  CDC Sol (kg/ha)  Tellow 4 108 52 -2 391 37 1.8 I  AAC Y012 Yellow 4 108 52 -2 391 37 1.8 I  AAC Y015 Yellow 4 191 54 -1 384 34 2.3 I  L12CB004 (kg/ha)  Terviously tested varieties (Yield and agronomic data only directly comparable to the checks)  AC Black Diamond (kg/ha)  AC Black Diamond (kg/ha)  Black Matte 11 79 62 0 178 35 1.8 II  CDC Sol (kg/ha)  CDC Sol (kg/ha)  CDC Sol (kg/ha)  Freviously tested varieties (Yield and agronomic data only directly comparable to the checks)  AC Black Diamond (kg/ha)  AC Black Diamond (kg/ha)  Black Matte 11 79 62 0 178 35 1.8 II  Sland (kg/ha)  CDC Wh. 2 Pinto 14 76 56 10 369 41 3 II  AAC Tundra (kg/ha)  AAC Tundra (kg									(1 - 5)	Habit⁴
AC Black Diamond	Varieti	ies tested in the 2017	trials (Yield and a	agronomic da	ita only dire	ctly compa	rable to t	he checks	s)	
AAC Black Diamond 2 Black Shiny 9 101 58 1 256 37 2.3 II Island (kg/ha) Island (kg/ha) AAC Budrett Pinto 23 100 56 99 369 41 3 II AAC Budrett Pinto 9 101 55 6 354 44 2.2 II AAC Explorer Pinto 4 90 52 -3 355 37 2.8 II AAC Explorer Pinto 5 100 52 96 348 42 2.9 II AAC Tundra (kg/ha) AAC Whitehorse Great Northern 15 100 52 96 348 42 2.9 II AAC AC Whitehorse Great Northern 12 98 51 0 369 43 2.8 II AAC Whitehorse Great Northern 12 98 51 0 369 43 2.8 II AAC Whitehorse Great Northern 12 96 51 1 348 43 2.5 II CDC Sol (kg/ha) CDC Sol (kg/ha)  Vellow 16 100 55 102 407 33 1.5 I AAC Y012 Yellow 16 100 55 102 407 33 1.5 I AAC Y012 Yellow 4 108 52 -2 391 37 1.8 I AAC Y015 Yellow 4 91 54 -1 384 34 2.3 I L12CBO04 (kg/ha)  Previously tested varieties (Vield and agronomic data only directly comparable to the checks)  AC Black Diamond (kg/ha)  AC Black Diamond (kg/ha)  Black Shiny 40 100 57 103 265 38 2.2 II CDC Blackcomb Black Matte 11 79 62 0 178 35 1.8 II Island (kg/ha)  STSB  Island Pinto 20 100 56 100 369 41 3 II Sland (kg/ha)  Island (kg/ha)  Island (kg/ha)  Island (kg/ha)  AC Tundra (kg/ha)  AC Redbond (kg/ha)  AC Redbond (kg/ha)  AC Redbond (kg/ha)  AC Redbond Small Red 29 100 52 100 319 40 2.4 II AC Redbond (kg/ha)  AC Redbond (kg/ha)  AC Redbond (kg/ha)  Yellow 14 100 55 104 409 33 1.5 I Nova (kg/ha)	AC Black Diamond (kg/ha)			3139						
Sland (kg/ha)   Sland   Pinto   23   100   56   99   369   41   3   II	AC Black Diamond	Black Shiny	42	100	57	102	265	38	2.2	II
Island   Pinto   Pi	AAC Black Diamond 2	Black Shiny	9		58	1	256	37	2.3	II
AAC Burdett Pinto 9 101 55 -6 354 44 2.2 II AAC Explorer Pinto 4 90 52 -3 355 37 2.8 II AAC Explorer Pinto 4 90 52 -3 355 37 2.8 II AAC Tundra (kg/ha)  AAC Tundra Great Northern 15 100 52 96 348 42 2.9 II AAC Whitehorse Great Northern 12 98 51 0 369 43 2.8 II AAC Whitehorse Great Northern 12 96 51 1 348 43 2.5 II AAC Whitehorse Great Northern 12 96 51 1 348 43 2.5 II AAC Whitehorse Great Northern 12 96 51 1 348 43 2.5 II CDC Sol (kg/ha)  CDC Sol (kg/ha)  CDC Sol (kg/ha)  CDC Sol (kg/ha)  Vellow 16 100 55 102 407 33 1.5 I AAC Y012 Yellow 4 108 52 2-2 391 37 1.8 I AAC Y015 Yellow 4 91 54 -1 384 34 2.3 I LIZEBO04 (kg/ha)  LIZEBO04 (kg/ha)  Previously tested varieties (Yield and agronomic data only directly comparable to the checks)  AC Black Diamond (kg/ha)  AC Black Diamond Black Shiny 40 100 55 97 571 36 1.9 I SIAC Black Diamond (kg/ha)  SIAC Black Diamond Black Matte 11 79 62 0 178 35 1.8 II SIAIN (kg/ha)  Island Pinto 20 100 56 100 369 41 3 II SIAIN (kg/ha)  Island Pinto 12 93 61 4 354 42 2.4 II SIAIN (kg/ha)  Island Pinto 12 93 61 4 354 42 2.4 II SIAIN (kg/ha)  AC CDC WM-2 Pinto 13 85 56 4 337 40 2.5 II Medicine Hat Pinto 12 93 61 4 354 42 2.4 II SIAIN (kg/ha)  AC Tundra (kg/ha)  AC Tundra (kg/ha)  AC Tundra Great Northern 13 100 52 97 349 42 2.9 II AC Tundra (kg/ha)  AC Codd Great Northern 13 100 52 97 349 42 2.9 II AC Tundra (kg/ha)  AC Codd Great Northern 13 100 52 97 349 42 2.9 II AC Tundra (kg/ha)  AC Codd Great Northern 13 100 52 97 349 42 2.9 II AC Tundra (kg/ha)  AC Codd Great Northern 13 100 52 97 349 42 2.9 II AC Tundra (kg/ha)  AC Codd Great Northern 13 100 52 97 349 42 2.9 II AC Tundra (kg/ha)  AC Codd Great Northern 13 100 52 97 349 42 2.9 II AC Tundra (kg/ha)  AC Redbond (kg/ha)  AC Redbond (kg/ha)  AC Redbond Small Red 29 100 55 104 409 33 1.5 I Mywa (kg/ha)	Island (kg/ha)			3796						
AAC Explorer   Pinto   4   90   52   -3   355   37   2.8   II   AAC Tundra (kg/ha)   3633   363   363   363   363   363   363   363   37   2.8   II   AAC Whitestar   Great Northern   12   98   51   0   369   43   2.8   II   AAC Whitestar   Great Northern   6   97   54   -1   357   47   2.9   II   AAC Redsolute   Great Northern   12   96   51   1   348   43   2.5   II   CDC Sol (kg/ha)   2493   37   1.8   1   AAC Red (kg/ha)   7   7   7   7   7   7   7   7   7										
AAC Tundra (kg/ha)  AAC Tundra  AAC Mhitehorse  Great Northern  15  100  52  96  348  42  2.9  II  AAC Whitehorse  Great Northern  12  98  51  0  369  43  2.8  II  AAC Whitehorse  Great Northern  12  96  51  1  357  47  2.9  II  AC Resibulte  Great Northern  12  96  51  1  348  43  2.5  II  CDC Sol (kg/ha)   CDC Sol (kg/ha)   Vellow  16  100  55  102  407  33  1.5  I  AAC Y012  Yellow  4  108  52  -2  391  37  1.8  I  AAC Y015  Yellow  4  91  54  -1  384  34  2.3  I  L12CB004 (kg/ha)  L12CB004 (kg/ha)  Cranberry  2  100  55  97  571  36  1.9  I  AC Black Diamond (kg/ha)  AC Black Diamond  Black Shiny  40  100  57  103  265  38  2.2  II  CDC Blackcomb  Black Matte  11  79  62  0  178  35  1.8  II  Island  (kg/ha)  CDC Blackcomb  Black Matte  11  79  62  0  178  35  1.8  II  Medicine Hat  Pinto  13  85  56  4  377  47  2.9  II  AC Tundra  AC Tundra  Great Northern  12  96  51  10  369  41  3  II  CDC Wh-2  Pinto  13  85  56  4  377  47  2.9  II  AC Tundra  AC Tundra  AC Tundra  Great Northern  13  100  52  97  349  42  2.9  II  AC Polaris  AC Tundra  Great Northern  13  100  52  97  349  42  2.9  II  AC Polaris  AC Redbond  Small Red  29  100  52  100  319  40  2.4  II  CDC Sol (kg/ha)  CDC Sol (kg/ha)  Small Red  29  100  52  100  317  317										
AAC Tundra Great Northern 15 100 52 96 348 42 2.9 II AAC Whitehorse Great Northern 12 98 51 0 369 43 2.8 II AAC Whitehorse Great Northern 12 98 51 0 369 43 2.8 II AAC Whitestar Great Northern 6 97 54 -1 357 47 2.9 II ACC Resolute Great Northern 12 96 51 1 348 43 2.5 II CDC Sol (kg/ha)  Telegration of the second of		Pinto	4		52	-3	355	37	2.8	
AAC Whitehorse Great Northern 12 98 51 0 369 43 2.8 II AAC Whitestar Great Northern 6 97 54 -1 357 47 2.9 II AC Resolute Great Northern 12 96 51 1 348 43 2.5 II CDC Sol (kg/ha)  CDC Sol (kg/ha)  CDC Sol (kg/ha)  Vellow 16 100 55 102 407 33 1.5 I AAC Y012 Yellow 4 108 52 -2 391 37 1.8 I AAC Y015 Yellow 4 91 54 -1 384 34 2.3 I L12CB004 (kg/ha)  L12CB004 (kg/ha)  Cranberry 2 100 55 97 571 36 1.9 I Previously tested varieties (Yield and agronomic data only directly comparable to the checks)  AC Black Diamond (kg/ha)  AC Black Diamond Black Shiny 40 100 57 103 265 38 2.2 II CDC Blackcomb Black Matte 11 79 62 0 178 35 1.8 II Island Pinto 20 100 56 100 369 41 3 II Island Pinto 14 76 56 1 369 40 2.5 II Medicine Hat ☑ Pinto 12 93 61 4 354 42 2.4 II Winchester Pinto 13 85 56 4 337 40 2.5 II Medicine Hat ☑ Pinto 13 85 56 4 337 40 2.5 II AAC Tundra Great Northern 13 100 52 97 349 42 2.9 II AC Polaris Great Northern 13 100 52 97 349 42 2.9 II AC Polaris Great Northern 13 100 52 97 349 42 2.9 II AC Polaris Great Northern 13 100 52 97 349 42 2.9 II AC Redbond (kg/ha)  Salary  AC Redbond Small Red 29 100 55 104 409 33 1.5 I DViva (kg/ha)  Yellow 14 100 55 104 409 33 1.5 I DViva (kg/ha)  Yellow 9 89 63 66 350 34 2.1 I										
AAC Whitestar										
AC Resolute Great Northern 12 96 51 1 348 43 2.5 II  CDC SOI (kg/ha)  CDC SOI (kg/ha)  CDC SOI (kg/ha)  CDC SOI (kg/ha)  Tellow 16 100 55 102 407 33 1.5 I  AAC Y012 Yellow 4 108 52 -2 391 37 1.8 I  AAC Y015 Yellow 4 91 54 -1 384 34 2.3 I  L12CB004 (kg/ha)  L12CB004 (kg/ha)  Cranberry 2 100 55 97 571 36 1.9 I  Previously tested varieties (Vield and agronomic data only directly comparable to the checks)  AC Black Diamond (kg/ha)  AC Black Diamond Black Shiny 40 100 57 103 265 38 2.2 II  CDC Blackcomb Black Matte 11 79 62 0 178 35 1.8 II  Sland Pinto 20 100 56 100 369 41 3 II  CDC WH.2 □ Pinto 14 76 56 1 369 40 2.5 II  Medicine Hat □ Pinto 12 93 61 4 354 42 2.4 II  Winchester Pinto 13 85 56 4 337 40 2.5 II  AAC Tundra (kg/ha)  AC Tundra (kg/ha)  AC Tundra (kg/ha)  AC Toudra Great Northern 13 100 52 97 349 42 2.9 II  AC Redbond (kg/ha)  AC Redbond (kg/ha)  Small Red 29 100 52 100 319 40 2.4 II  CDC SOI □ Yellow 14 100 55 104 409 33 1.5 I  Myssi Yellow 9 89 63 6 350 34 2.1 I  Viva (kg/ha)										
CDC Sol (\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(		Great Northern				-1				II
CDC Sol		Great Northern	12		51	1	348	43	2.5	II
AAC Y012 Yellow 4 108 52 -2 391 37 1.8 I  AAC Y015 Yellow 4 91 54 -1 384 34 2.3 I  L12CB004 (kg/ha)  Cranberry 2 100 55 97 571 36 1.9 I  Previously tested varieties (Yield and agronomic data only directly comparable to the checks)  AC Black Diamond (kg/ha)  AC Black Diamond Black Shiny 40 100 57 103 265 38 2.2 II  CDC Blackcomb Black Matte 11 79 62 0 178 35 1.8 II  Island (kg/ha)  Island (kg/ha)  Island Pinto 20 100 56 100 369 41 3 II  CDC WM-2 Pinto 14 76 56 1 369 40 2.5 II  Medicine Hat Pinto 12 93 61 4 354 42 2.4 II  AAC Tundra (kg/ha)  AAC Tundra Great Northern 13 100 52 97 349 42 2.9 II  AC Polaris Great Northern 6 107 62 7 300 37 4.1 II  AC Redbond (kg/ha)  Small Red 29 100 55 104 409 33 1.5 I  Myasi Yellow 9 89 63 66 350 34 2.1 I  Viva (kg/ha)  Finto 9 89 63 66 350 34 2.1 I  Viva (kg/ha)										
AAC Y015         Yellow         4         91         54         -1         384         34         2.3         I           L12CB004 (kg/ha)         L12CB004 (A)         Cranberry         2         100         55         97         571         36         1.9         I           AC Black Diamond (kg/ha)         Black Shiny         40         100         57         103         265         38         2.2         II           CDC Blackcomb         Black Matte         11         79         62         0         178         35         1.8         II           Island (kg/ha)         Island Pinto         20         100         56         100         369         41         3         II           CDC WM-2 ⚠ Pinto         14         76         56         1         369         40         2.5         II           Medicine Hat ☒ Pinto         12         93         61         4         354         42         2.4         II           Winchester         Pinto         13         85         56         4         337         40         2.5         II           AAC Tundra         Great Northern         13										ı
L12CB004 (kg/ha)       Cranberry       2531         L12CB004 (A)       Cranberry       2       100       55       97       571       36       1.9       I         Previously tested varieties (Yield and agronomic data only directly comparable to the checks)         AC Black Diamond (kg/ha)         AC Black Diamond (kg/ha)         Black Shiny       40       100       57       103       265       38       2.2       II         CDC Blackcomb       Black Matte       11       79       62       0       178       35       1.8       II         Sland (kg/ha)         Island (kg/ha)         Pinto       20       100       56       100       369       41       3       II         CDC WM-2 ©       Pinto       14       76       56       1       369       40       2.5       II         Medicine Hat ©       Pinto       12       93       61       4       354       42       2.4       II         Winchester       Pinto       13       85       56       4       337       40       2.5										1
L12CB004 (A)   Cranberry   2   100   55   97   571   36   1.9       Previously tested varieties (Yield and agronomic data only directly comparable to the checks)   AC Black Diamond (kg/ha)   3017     AC Black Diamond   Black Shiny   40   100   57   103   265   38   2.2   II     CDC Blackcomb   Black Matte   11   79   62   0   178   35   1.8   II     Island (kg/ha)   3758     Island   Pinto   20   100   56   100   369   41   3   II     CDC WM-2		Yellow	4		54	-1	384	34	2.3	
Previously tested varieties (Yield and agronomic data only directly comparable to the checks)  AC Black Diamond (kg/ha)  AC Black Diamond Black Shiny 40 100 57 103 265 38 2.2 II  CDC Blackcomb Black Matte 11 79 62 0 178 35 1.8 II  Island (kg/ha)  Island Pinto 20 100 56 100 369 41 3 II  CDC WM-2 → Pinto 14 76 56 1 369 40 2.5 II  Medicine Hat → Pinto 12 93 61 4 354 42 2.4 II  Winchester Pinto 13 85 56 4 337 40 2.5 II  AAC Tundra (kg/ha)  AAC Tundra Great Northern 13 100 52 97 349 42 2.9 II  AC Polaris Great Northern 6 107 62 7 300 37 4.1 II  CDC Sol (kg/ha)  AC Redbond (kg/ha)  Small Red 29 100 52 100 319 40 2.4 II  CDC Sol (kg/ha)  CDC Sol (kg/ha)  Yellow 14 100 55 104 409 33 1.5 I  Myasi Yellow 9 89 63 6 350 34 2.1 I  Viva (kg/ha)	` ` ,									
AC Black Diamond (kg/ha)  AC Black Diamond Black Shiny 40 100 57 103 265 38 2.2 II  CDC Blackcomb Black Matte 11 79 62 0 178 35 1.8 II  Island (kg/ha)  Island Pinto 20 100 56 100 369 41 3 II  CDC WM-2  Pinto 14 76 56 1 369 40 2.5 II  Medicine Hat  Pinto 12 93 61 4 354 42 2.4 II  Winchester Pinto 13 85 56 4 337 40 2.5 II  AAC Tundra (kg/ha)  AAC Tundra Great Northern 13 100 52 97 349 42 2.9 II  AC Polaris Great Northern 6 107 62 7 300 37 4.1 II  AC Redbond (kg/ha)  Small Red 29 100 52 100 319 40 2.4 II  CDC Sol (kg/ha)  CDC Sol (kg/ha)  Yellow 14 100 55 104 409 33 1.5 I  Myasi Yellow 9 89 63 6 350 34 2.1 I  Viva (kg/ha)									1.9	- 1
AC Black Diamond Black Shiny 40 100 57 103 265 38 2.2 II  CDC Blackcomb Black Matte 11 79 62 0 178 35 1.8 II  Island (kg/ha) 3758  Island Pinto 20 100 56 100 369 41 3 II  CDC WM-2   Pinto 14 76 56 1 369 40 2.5 II  Medicine Hat   Pinto 12 93 61 4 354 42 2.4 II  Winchester Pinto 13 85 56 4 337 40 2.5 II  AAC Tundra (kg/ha)  AAC Tundra Great Northern 13 100 52 97 349 42 2.9 II  AC Polaris Great Northern 6 107 62 7 300 37 4.1 II  AC Redbond (kg/ha)  AC Redbond Small Red 29 100 52 100 319 40 2.4 II  CDC Sol (kg/ha)  CDC Sol (kg/ha)  Yellow 14 100 55 104 409 33 1.5 I  Myasi Yellow 9 89 63 6 350 34 2.1 I  Viva (kg/ha)		eviously tested varieti	es (Yield and agre		only directly	y comparab	le to the	checks)		
CDC Blackcomb         Black Matte         11         79         62         0         178         35         1.8         II           Island (kg/ha)         Island         Pinto         20         100         56         100         369         41         3         II           CDC WM-2				3017						
Island (kg/ha)     3758       Island     Pinto     20     100     56     100     369     41     3     II       CDC WM-2	AC Black Diamond	Black Shiny				103				II
Island       Pinto       20       100       56       100       369       41       3       II         CDC WM-2	CDC Blackcomb	Black Matte	11		62	0	178	35	1.8	II
CDC WM-2	Island (kg/ha)									
Medicine Hat ⚠         Pinto         12         93         61         4         354         42         2.4         II           Winchester         Pinto         13         85         56         4         337         40         2.5         II           AAC Tundra (kg/ha)         3570         3570         349         42         2.9         II           AC Polaris         Great Northern         13         100         52         97         349         42         2.9         II           AC Polaris         Great Northern         6         107         62         7         300         37         4.1         II           AC Redbond (kg/ha)         3149         3149         40         2.4         II           AC Redbond         Small Red         29         100         52         100         319         40         2.4         II           CDC Sol (kg/ha)         2350           CDC Sol ♠         Yellow         14         100         55         104         409         33         1.5         I           Myasi         Yellow         9         89         63         6         350         34         2.1		Pinto	20	100	56	100		41		II
Winchester         Pinto         13         85         56         4         337         40         2.5         II           AAC Tundra (kg/ha)         AAC Tundra         Great Northern         13         100         52         97         349         42         2.9         II           AC Polaris         Great Northern         6         107         62         7         300         37         4.1         II           AC Redbond (kg/ha)         AC Redbond         Small Red         29         100         52         100         319         40         2.4         II           CDC Sol (kg/ha)         CDC Sol (kg/ha)         Yellow         14         100         55         104         409         33         1.5         I           Myasi         Yellow         9         89         63         6         350         34         2.1         I           Viva (kg/ha)         3137						1				II
AAC Tundra (kg/ha)  AAC Tundra  Great Northern  13  100  52  97  349  42  2.9  II  AC Polaris  Great Northern  6  107  62  7  300  37  4.1  II  AC Redbond (kg/ha)  AC Redbond  Small Red  29  100  52  100  319  40  2.4  II  CDC Sol (kg/ha)  CDC Sol (kg/ha)  CDC Sol (\(\triangle \triangle \triang	Medicine Hat 🗘	Pinto				4		42		II
AAC Tundra Great Northern 13 100 52 97 349 42 2.9 II  AC Polaris Great Northern 6 107 62 7 300 37 4.1 II  AC Redbond (kg/ha)  AC Redbond Small Red 29 100 52 100 319 40 2.4 II  CDC Sol (kg/ha)  CDC Sol (\( \triangle \) Yellow 14 100 55 104 409 33 1.5 I  Myasi Yellow 9 89 63 6 350 34 2.1 I  Viva (kg/ha)  3137	Winchester	Pinto	13	85	56	4	337	40	2.5	<u>II</u>
AC Polaris         Great Northern         6         107         62         7         300         37         4.1         II           AC Redbond (kg/ha)         3149         3149         40         2.4         II           AC Redbond         Small Red         29         100         52         100         319         40         2.4         II           CDC Sol (kg/ha)         2350           CDC Sol ◊ Yellow         14         100         55         104         409         33         1.5         I           Myasi         Yellow         9         89         63         6         350         34         2.1         I           Viva (kg/ha)         3137	AAC Tundra (kg/ha)			3570						
AC Redbond (kg/ha)       3149         AC Redbond       Small Red       29       100       52       100       319       40       2.4       II         CDC Sol (kg/ha)       2350         CDC Sol ◊ Yellow       14       100       55       104       409       33       1.5       I         Myasi       Yellow       9       89       63       6       350       34       2.1       I         Viva (kg/ha)       3137	AAC Tundra	<b>Great Northern</b>	13	100	52	97	349	42	2.9	II
AC Redbond         Small Red         29         100         52         100         319         40         2.4         II           CDC Sol (kg/ha)         2350           CDC Sol ⋈         Yellow         14         100         55         104         409         33         1.5         I           Myasi         Yellow         9         89         63         6         350         34         2.1         I           Viva (kg/ha)         3137		Great Northern	6		62	7	300	37	4.1	II
CDC Sol (kg/ha)         CDC Sol ⋈       Yellow       14       100       55       104       409       33       1.5       I         Myasi       Yellow       9       89       63       6       350       34       2.1       I         Viva (kg/ha)       3137	AC Redbond (kg/ha)			3149						
CDC Sol (2)         Yellow         14         100         55         104         409         33         1.5         I           Myasi         Yellow         9         89         63         6         350         34         2.1         I           Viva (kg/ha)         3137	AC Redbond	Small Red	29	100	52	100	319	40	2.4	II
Myasi         Yellow         9         89         63         6         350         34         2.1         I           Viva (kg/ha)         3137				2350						
Viva (kg/ha) 3137	CDC Sol 🖒	Yellow	14	100	55	104	409	33	1.5	I
	Myasi	Yellow	9	89	63	6	350	34	2.1	1
<u>Viva</u> Pink 29 100 54 102 258 34 3.8 III	Viva (kg/ha)			3137						
	Viva	Pink	29	100	54	102	258	34	3.8	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. XX - Insufficient data to describe. ✓ = Protected by Plant Breeder's Rights (PBR).

LENTIL										
			Overall		Agron	omic Char	acteristics:		Disease	Tolerance:6
Market Class	Variety	Overall Yield	Station Years of Testing	TSW <sup>2</sup> (g)	Plant Height (cm)	Maturity Rating <sup>3</sup>	Cotyledon Colour <sup>4</sup>	Seed Coat Colour <sup>5</sup>	Ascochyta	Anthracnose
	Varieties tested in the 20	)17 trials (	Yield and a	igronomi	c data on	ly directly o	omparable to	CDC Maxi	im)	
	CDC Maxim (kg ha <sup>-1</sup> )	2904								
Small Red	CDC Maxim (CL) <sup>1</sup>	100	29	40	34	E/M	R	GR	G	G
Extra Small Red	CDC Rosie	97	19	30	35	E/M	R	GR	G	G
	CDC Roxy ▲	99	9	27	34	E/M	R	GR	G	G
Small Red	CDC Dazil (CL)	94	25	34	35	E/M	R	GR	G	F
	CDC Impulse (CL)	97	9	46	37	E/M	R	GR	G	G
	CDC Proclaim CL (A)	106	6	39	37	E/M	R	GR	G	G
	CDC Scarlet	102	19	38	35	E/M	R	GR	G	F
Large Red	CDC KR-1	104	23	52	39	М	R	GR	G	G
Small Green	CDC Imvincible (CL)	96	28	33	35	Е	Υ	G	G	G
Large Green	CDC Greenstar	92	9	63	37	M/L	Υ	G	G	F
	CDC Impower (CL)	81	23	67	41	M/L	Υ	G	G	VP
	CDC Improve (CL)	84	23	71	38	М	Υ	G	F	VP
	Previously tested var	ieties (Yie	eld and agro	onomic d	ata only o	directly com	parable to C	DC Maxim)		
Extra Small Red	CDC Impala (CL)	93-	20	31	35	E	R	GR	G	G
	CDC Imperial (CL)	82-	17	30	35	Е	R	GR	G	G
Small Red	CDC Imax (CL)	100	19	46	37	E/M	R	GR	G	F
	CDC Redberry	96	17	44	37	Ε	R	GR	G	G
	CDC Redcliff	110+	14	39	36	E/M	R	GR	G	F
Medium Green	CDC Imigreen (CL)	79-	14	61	43	М	Υ	G	G	VP
	CDC Impress (CL)	85-	14	52	38	М	Υ	G	G	Р
Large Green	CDC Greenland	88-	14	67	39	M/L	Υ	G	G	VP

**Remarks**: Weight, diameter and thickness of lentil seeds were dependent upon environmental conditions and agronomic factors. All five trials: Bow Island, Brooks, Lethbridge, Medicine Hat and Oyen were grown in Area 1. A = First year entries (2017). CL= Clearfield variety.

• Protected by the 1991 Act of the UPOV Convention.

¹Yields are reported relative to CDC Maxim (CL). CDC Maxim belongs to Small Red Market Class. ²Thousand Seed Weight. 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. ⁵Disease tolerance: VP = Very Poor, P = Poor, F = Fair, G = Good.

CHICKPEA							
		Overall Station		Agro	nomic Charac	cteristics:	
		Years of	Overall	TSW <sup>2</sup>	Maturity	Plant Height	Tolerance to
Variety	Type	Testing	Yield <sup>1</sup>	(g)	Rating <sup>3</sup>	(cm)	Ascochyta <sup>4</sup>
Varieties tested	in the 2017 tria	ols (Yield and a	gronomic da	ta only dire	ctly comparal	ole to CDC Fron	tier)
CDC Frontier (kg ha <sup>-1</sup> )			4324				
CDC Frontier <sup>1</sup>	Kabuli	38	100	329	L	42	F
CDC Consul	Desi	11	94	207	M	38	F
CDC Corinne	Desi	21	106	212	M	43	F
CDC Cory	Desi	21	100	232	M	44	F
CDC Alma	Kabuli	25	90	326	ML	38	VP
CDC Leader	Kabuli	21	97	332	ML	40	F
CDC Orion	Kabuli	25	96	387	ML	41	Р
CDC Palmer	Kabuli	11	97	285	M	37	F
Previously to	ested varieties	(Yield and agro	nomic data	only directly	, comparable	to CDC Frontier	)
Amit 😃	Kabuli	25	92	269	L	44	F
CDC Luna	Kabuli	19	88	378	ML	37	Р
CDC Vanguard	Desi	16	92	230	ML	42	F

**Remarks**: All four trials: Bow Island, Brooks, Lethbridge and Medicine Hat were grown in Area 1. A = First year entries (2017). 

¹Yields are reported relative to CDC Frontier.²TSW: Thousand Seed Weight. 
³Maturity Ratings: E = Early, M = Medium, ML = Medium to Late, L = Late. 
⁴Tolerance to Ascochyta: VP = Very Poor, P = Poor, F = Fair.

YBEAN												
	Irriga	ation:		Agronomic Characteristics:								
	Yield	Site		Pod	Plant	Relative		Seed				
	(%)	Years	Days to	Clearance <sup>2</sup>	Height	Days to	$TSW^4$	per				
Variety	Check <sup>1</sup>	Tested	Flowering	(cm)	(cm)	Maturity <sup>3</sup>	(g)	Pour				
Varieties tes	ted in the 2	017 trials (\	ield and agro	nomic data o	nly directl	y comparabl	e to McLe	od)				
McLeod (kg ha <sup>-1</sup> )	3483											
McLeod	100	19	54	7	63	120	157	2889				
22-60	102	12	52	5	51	1	147	308				
Akras	113+	19	57	10	62	2	145	312				
CFS17.1.03 (A)	92	4	52	7	51	-6	168	270				
CFS17.1.04 (A)	104	4	53	7	42	3	166	273				
DKB0008-39 (A)	87-	4	50	6	49	1	150	3024				
DKB003-29 (A)	107	4	52	6	47	4	174	260				
Dario (A)	95	4	50	5	47	-1	138	328				
Dylano (A)	89-	4	53	6	42	4	147	3086				
Lono (A)	106	4	54	7	51	4	149	304				
Marduk (A)	95	4	52	5	49	5	182	2492				
NSC Belmont (A)	91	4	53	6	51	3	162	2800				
NSC Leroy (A)	86-	4	54	5	50	-8	151	300				
NSC Star City (A)	95	4	50	6	42	-5	134	338				
NSC Watson	96	8	52	4	52	-8	156	2908				
S0009 - D6 (A)	95	4	52	5	45	-6	135	3360				
S0009 - M2	102	12	50	5	57	-8	152	2984				
S001	103	8	52	6	61	0	164	276				
S003	108+	8	51	6	56	-6	175	2592				
S006	114+	8	50	5	54	-5	136	333				
S007	108+	12	51	5	56	0	149	304				
S008 (A)	110+	4	51	7	53	3	164	2766				
TH37004	100	8	51	5	59	2	142	3194				
TH87003 (A)	102	4	51	5	48	3	155	2926				
TH88005 (A)	98	4	53	6	49	5	152	2984				
Torro	92-	8	51	6	64	-3	150	3024				
	ly tested va	rieties (Yiel	d and agrono	mic data only	directly c	omparable to	McLeod					
900Y61 🕸	90-	11	54	7	56	1	150	3024				
NSC Moosomin	78-	11	53	6	49	-4	138	328				
NSC Reston	103	11	54	8	61	-2	128	354				
NSC Vito	89-	11	53	7	71	0	132	3430				
P001T34 (9)	65-	11	53	5	46	-9	136	333				
Pekko	102	11	57	9	65	0	130	3489				

**Remarks**: Straight combining is commonly used method of harvest. Swathing soybean 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. Varieties removed from the table: 23-11, 23-60, Notus, Podaga, CFS 16.3.02. All four trials: Bow Island, Brooks Lethbroidge and Medicine Hat were grown under irrigation. A - first year entries (2017).

'Yields are reported relative to McLeod, yields that are statistically higher (+) or lower (-) than the check are indicated. <sup>2</sup>Distance from the ground level to lowest pod tip.<sup>3</sup>Maturity is reported as +/- days relative to McLeod - averaged across the Brooks, Bow Island and Medicine Hat trials. <sup>4</sup>TSW: Thousand Seed Weight.

FABABEAN							
Variety	Туре	Overall Yield	Overall Station Years of Testing	Relative Maturity <sup>1</sup>	Plant Height (cm)	Thousand Seed Weight (g)	Flower Color <sup>2</sup>
Varieties tes	sted in the 2017	trials (Yield a	and agronomic data	only directly c	omparable t	o Snowbird)	
CDC Snowbird (kg/ha) 🗘		5821					
CDC Snowbird 🗘	Zero Tannin	100	44	E	91	474	W
Athena ▲ NR *	Tannin	117+	9	M	94	546	С
Fabelle	Tannin	121+	9	M	98	511	С
Malik NR *	Tannin	96-	32	M	85	623	С
Rodeo ▲ NR *	Tannin	118+	9	M	92	601	С
Vertigo NR	Tannin	120+	9	M	100	555	С
Previously teste	ed varietties: 20	13 - 2015 (Yie	eld and agronomic	data only direct	ly comparal	ole to Snowbir	d)
Snowdrop	Zero Tannin	88-	23	Е	87	351	W
Tabasco 众	Zero Tannin	85-	15	M	86	374	W

**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 tested for a minimum three years are considered fully tested. 

■ Protected by Plant Breeders' Rights (PBR); ■ Applied for PBR protection. NR = Variety not registered with CFIA. \* Contract Varieties. Varieties removed from the table: Ben and Earlibird.

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