

FEED AND FOOD BARLEY

Variety	2 or 6 row	Awn Type	Overall Station Years of Testing	Overall Yield	Yield Category (% AC Metcalfe):				Agronomic Characteristics:				
					Low < 60 (bu/ac)	Medium 60-90 (bu/ac)	High 90-120 (bu/ac)	V. High > 120 (bu/ac)	Maturity Rating	Test Weight (lb/bu)	TKW (g)	Height (cm)	Resistance to Lodging
GENERAL PURPOSE													
Varieties tested in the 2016 trials (Yield, significant differences and agronomic data only directly comparable to AC Metcalfe)													
AC Metcalfe (bu/ac)				100	47	78	103	134					
AC Metcalfe ☼	2	R		100	100	100	100	100	M	51	46	79	F
Champion ☼	2	R	166	113+	124+	113+	112+	111+	M	53	49	76	G
Claymore ☼	2	R	42	111+	XX	110+	109+	115+	L	51	47	76	G
Oreana ☼	2	R	42	112+	XX	109+	114+	115+	L	53	50	66	VG
Vivar ☼	6	R	175	109+	97	105+	109+	115+	M	49	44	73	VG
Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to AC Metcalfe)													
Brahma ☼	2	R	87	111+	112+	109+	113+	111+	M	53	47	74	G
Busby ☼	2	R	45	104+	107	103	106	103	M	53	49	78	G
CDC Austenson ☼	2	R	65	112+	108	113+	111+	112+	L	54	46	78	G
CDC Bold †	2	R	77	106+	111+	107+	106+	102	M	53	48	72	VG
CDC Coalition ☼	2	R	57	110+	107	112+	108+	109+	L	53	47	74	G
CDC Cowboy ☼	2	R	75	95-	107	94-	93-	96-	L	52	55	103	F
CDC Dolly †	2	R	184	101	97	100	103+	100	M	53	49	74	F
CDC Maverick ☼	2	S	43	95-	XX	90-	97	96	M	54	55	98	F
CDC Trey	2	R	106	103+	101	105+	101	105+	M	52	50	80	G
Canmore ☼	2	R	40	107+	XX	104	111+	108+	M	52	49	73	G
CONLON ☼	2	S	63	94-	97	93-	93-	96-	VE	52	52	80	G
Gadsby ☼	2	R	45	112+	XX	114+	114+	108+	M	53	51	83	F
Ponoka ☼	2	R	120	108+	101	107+	110+	109+	L	51	46	80	G
Seebe	2	R	229	101	97	100	102	100	VL	52	50	86	G
XENA	2	R	271	112+	111+	109+	114+	112+	M	52	49	77	G
AC Harper	6	SS	166	103+	95	96-	102	111+	M	48	40	80	G
AC Ranger	6	S	48	107+	101	99	118+	107+	L	49	43	74	F
AC Rosser †	6	S	166	108+	101	102	109+	113+	M	48	41	82	G
Amisk ☼	6	SS	40	105+	XX	105	104	108+	M	49	46	69	VG
Breton †	6	S	42	107+	97	108	106+	110+	M	49	45	80	F
Chigwell	6	S	43	104	XX	98	106	111+	M	49	41	76	G
Muskwa ☼	6	S	44	105+	XX	103	105	110+	M	50	42	73	G
Sundre ☼	6	S	72	110+	100	105	112+	117+	L	51	43	86	G
Trochu ☼	6	S	136	107+	101	102	109+	112+	M	49	41	78	G
HULLLESS													
Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to AC Metcalfe)													
CDC Carter ☼	2	R	45	97-	97	99	94-	XX	M	62	39	77	VG
CDC McGwire ☼ †	2	R	107	93-	88-	93-	99	XX	M	61	39	80	VG
Falcon	6	S	181	83-	72-	83-	91-	89	E	58	35	68	VG
Tyto †	6	S	72	81-	79-	84-	96	96	M	55	40	73	VG

REMARKS: For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. The long term average maturity for AC Metcalfe is 95 days and is rated as Medium (M). Varieties rated Intermediate (I) to Susceptible (S) for smuts should be treated with a systemic seed treatment to reduce the potential for infection. Hullless varieties leave the hull in the field and thus grain yields comparable to hulled varieties are 9-12% lower. Handling of hullless varieties should be minimized to avoid seed damage. CDC Carter, CDC McGwire, Falcon and Tyto are normal starch barleys suitable for food use. New registrations: Claymore (TR12733) and Oreana (TR12735). † - Flagged for possible removal in 2018.

FEED AND FOOD BARLEY— CONTINUED

Disease Tolerance:

Net Blotch:

Variety	Loose Smut	Other Smuts	Root Rot	Scald	Net Blotch:		FHB
					Spot form	Net form	
GENERAL PURPOSE							
Varieties tested in the 2016 trials (Yield, significant differences and agronomic data only directly comparable to AC Metcalfe)							
AC Metcalfe (bu/ac)							
AC Metcalfe ☼	R	I	I	S	I	S	I
Champion ☼	S	R	MR	S	I	S	I
Claymore ☼	S	R	I	S	I	S	I
Oreana ☼	S	R	I	S	MR	S	S
Vivar ☼	I	R	MR	I	MR	R	S
Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to AC Metcalfe)							
Brahma ☼	MS	R	MR	S	I	I	I
Busby ☼	S	MR	S	I	MR	MS	I
CDC Austenson ☼	S	R	I	S	R	MS	I
CDC Bold †	MS	MR	MR	S	I	S	S
CDC Coalition ☼	R	R	I	S	MR	S	I
CDC Cowboy ☼	MS	MR	I	MS	MR	I	MR
CDC Dolly †	S	I	I	I	MS	S	MR
CDC Maverick ☼	S	R	I	MS	MR	I	MR
CDC Trey	MS	R	MR	MS	R	I	I
Canmore ☼	R	R	I	MR	MR	MS	I
CONLON ☼	I	I	MR	S	MR	I	MR
Gadsby ☼	R	R	I	R	MR	MS	I
Ponoka ☼	R	R	I	MR	MR	MS	I
Seebe	S	R	I	MR	MS	S	MR
XENA	MS	MS	MR	S	I	S	MR
AC Harper	MS	I	I	I	I	I	MS
AC Ranger	MS	I	MR	MS	MR	I	S
AC Rosser †	MS	R	MR	S	MR	I	S
Amisk ☼	S	MS	MS	I	MR	I	S
Breton †	MS	MR	I	I	MR	I	S
Chigwell	MS	MR	MS	MR	MR	I	S
Muskwa ☼	MS	R	MS	MR	MR	MS	S
Sundre ☼	MS	R	MS	R	I	MS	S
Trochu ☼	MS	MR	MR	I	MR	S	I
HULLESS							
Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to AC Metcalfe)							
CDC Carter ☼	R	R	S	MS	MR	I	I
CDC McGwire ☼ †	MS	MR	MR	I	MR	I	MR
Falcon	MS	MR	I	I	I	I	S
Tyto †	S	R	I	MS	I	S	MS

MALTING BARLEY

Variety	2 or 6 row	Awn Type	Overall Station Years of Testing	Yield Category (% AC Metcalfe):				Agronomic Characteristics:					
				Overall Yield	Low < 60 (bu/ac)	Medium 60-90 (bu/ac)	High 90-120 (bu/ac)	V. High > 120 (bu/ac)	Maturity Rating	Test Weight (lb/bu)	TKW (g)	Height (cm)	Resistance to Lodging
Varieties tested in the 2016 trials (Yield, significant differences and agronomic data only directly comparable to AC Metcalfe)													
AC Metcalfe (bu/ac)				100	47	78	103	134					
AC Metcalfe ☼	2	R		100	100	100	100	100	M	51	46	79	F
CDC Bow ▲	2	R	42	104+	XX	106	105	104	M	51	48	77	VG
CDC Platinum Star ▲	2	R	42	106+	XX	108	107+	102	M	53	49	82	F
CDC Fraser ▲	2	R	27	107+	XX	106	109	107+	M	51	49	75	G
Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to AC Metcalfe)													
AAC Synergy ☼	2	R	42	114+	XX	115+	115+	113+	M	51	48	75	F
Bentley ☼	2	R	77	105+	109	102	105+	106+	M	52	47	81	G
CDC Clear ☼	2	R	43	95-	XX	92-	100	XX	L	62	47	85	G
CDC Copeland ☼	2	R	137	103+	96	101	106+	104+	M	51	47	81	F
CDC Kindersley ☼	2	R	47	104+	XX	102	104	104+	E	53	43	78	G
CDC Meredith ☼	2	R	65	107+	102	108+	108+	107+	L	51	46	76	F
CDC PolarStar ☼	2	R	43	101	XX	103	105+	97	M	52	44	79	G
Cerveza ☼	2	R	49	109+	XX	109+	108+	109+	M	51	46	74	F
Harrington †	2	R	284	93-	96-	94-	93-	91-	M	51	44	78	F
Major ☼	2	R	72	107+	104	108+	107+	106+	M	51	45	73	G
Merit 57 ☼	2	R	87	109+	110+	108+	109+	111+	VL	51	44	79	F
Newdale	2	R	94	105+	106	104+	105+	106+	M	52	46	73	F
CDC Anderson ☼ †	6	R	44	96	XX	96	92	100	M	50	39	80	G
CDC Mayfair ☼ †	6	R	56	97	XX	93-	96	104	E	49	40	76	G
LEGACY ☼	6	SS	122	99	93	95-	102	103	M	49	39	82	G
Tradition ☼ †	6	SS	121	98	90-	95-	101	103	E	50	40	81	G

REMARKS: For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. The long term average maturity for AC Metcalfe is 95 days and is rated as Medium (M). Varieties rated Intermediate (I) to Susceptible (S) for smuts should be treated with a systemic seed treatment to reduce the potential for infection. The Canadian Malting Barley Technical Centre (CMBTC) evaluates and recommends malting barley varieties for industry acceptance. Please refer to the 2016-2017 CMBTC Recommended Malting Barley Variety List for more information. CDC Clear is a hullless malting variety. New registrations: CDC Fraser (TR12135). † - Flagged for possible removal in 2018.

MALTING BARLEY — CONTINUED

Variety	Disease Tolerance:						
	Loose Smut	Other Smuts	Root Rot	Scald	Net Blotch:		FHB
					Spot form	Net form	
Varieties tested in the 2016 trials (Yield, significant differences and agronomic data only directly comparable to AC Metcalfe)							
AC Metcalfe (bu/ac)							
AC Metcalfe	R	I	I	S	I	S	I
CDC Bow	S	I	MS	MS	MR	S	MS
CDC Platinum Star	R	R	S	S	MR	I	MR
CDC Fraser	R	MR	MS	MS	MR	MR	I
Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to AC Metcalfe)							
AAC Synergy	S	I	I	S	R	MR	MS
Bentley	MS	MR	MR	S	R	MS	MS
CDC Clear	R	R	I	S	R	MS	MR
CDC Copeland	MS	I	I	S	I	I	I
CDC Kindersley	S	R	I	S	MR	MS	I
CDC Meredith	R	MR	MR	S	R	S	I
CDC PolarStar	S	R	MS	S	MR	S	MR
Cerveza	R	R	I	S	MR	MS	I
Harrington †	MS	MS	I	S	MS	S	MR
Major	R	MR	I	MS	MR	I	I
Merit 57	MS	S	I	MS	MR	MS	MS
Newdale	S	MR	MR	MS	MR	I	I
CDC Anderson †	MR	R	I	MS	MR	MS	I
CDC Mayfair †	S	MR	I	S	MR	MS	MS
LEGACY	I	MR	MR	S	MR	S	MS
Tradition †	S	MR	MR	S	I	S	S

OATS

Variety	Overall Station Years of Testing	Overall Yield	Yield Category (% CDC Dancer):				Agronomic Characteristics:					
			Low < 70 (bu/ac)	Medium 70-100 (bu/ac)	High 100-130 (bu/ac)	V. High > 130 (bu/ac)	Maturity Rating	Test Weight (lb/bu)	TKW (g)	Height (cm)	Resistance to Lodging	Tolerance to Smuts
MILLING												
Varieties tested in the 2016 trials (Yield, significant differences and agronomic data only directly comparable to CDC Dancer)												
CDC Dancer (bu/ac)		95	49	84	112	148						
CDC Dancer ☼	129	100	100	100	100	100	E	42	37	94	G	R
Akina ▲	19	110+	XX	102	112	XX	M	41	38	88	VG	XX
CDC Norseman ▲	27	101	XX	100	101	XX	E	41	38	94	G	MS
CS Camden ▲	27	109+	XX	109+	106	XX	L	41	39	90	G	I
Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to CDC Dancer)												
AAC Justice ☼	28	104	XX	99	109+	XX	M	42	36	91	G	R
AC Juniper	80	104+	102	104	106+	105+	E	41	38	94	VG	I
AC Morgan	95	111+	110+	110+	111+	115+	M	40	40	92	VG	I
Bradley ☼	31	104+	XX	103	108	106	M	39	39	92	VG	R
CDC Boyer	89	102	103	102	100	105	M	39	42	101	G	MS
CDC Minstrel ☼	61	104+	103	103	105	105+	M	39	38	88	VG	R
CDC Orrin ☼	52	109+	113+	107+	107+	XX	M	41	40	84	G	R
CDC Ruffian ☼	28	110+	110	105	116+	XX	M	40	39	94	G	R
CDC Seabiscuit ☼	30	111+	124	106	108	108	M	39	41	101	G	MR
CDC Weaver	44	104	108+	103	100	100	M	40	43	91	F	R
Derby	79	101	103	102	96-	105	L	41	39	103	G	MS
Jordan ☼	36	112+	112+	109+	117+	XX	VL	38	44	87	G	R
Souris ☼	28	110+	120+	103	111	XX	M	41	34	91	VG	R
Stride ☼	30	104+	101	102	107	106	M	42	35	104	G	R
Triactor ☼	47	110+	109	108+	114+	110+	M	38	38	89	G	R
FEED												
Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to CDC Dancer)												
AC Mustang *	108	114+	118+	112+	110+	116+	L	42	37	103	G	I
CDC Nasser	31	116+	132	107	115+	110	L	39	36	98	G	MR
Lu *	58	100	99	98	99	108	VE	41	39	85	G	R
FORAGE												
Previously tested varieties (Yield and agronomic data only directly comparable to CDC Dancer)												
CDC Baler *	42	99	96	106	96	XX	L	40	43	99	XX	S
CDC Haymaker	28	104	XX	103	105	XX	L	39	40	100	F	MR
Murphy ☼ *	51	95-	93	96	97	94	M	39	36	108	XX	S

REMARKS: For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. The long term average maturity for CDC Dancer is 98 days and rated as Early (E). Varieties rated Intermediate (I) to Susceptible (S) for the smuts should be treated with a systemic seed treatment to reduce the potential for infection. New registrations: OT6011. Insufficient data to describe: OT6011. * Yield figures based on direct and indirect comparisons with CDC Dancer.

CANADA WESTERN AMBER DURUM

Variety	Overall Station Years of Testing	Overall Yield	Yield Category (% Strongfield):			Agronomic Characteristics:						Disease Tolerance:					
			Low <	Medium	High >	Mat. Rating	Prot. %	Test Weight (lb/bu)	TKW (g)	Height (cm)	Resistance to:		Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB
			45 (bu/ ac)	45-75 (bu/ac)	75 (bu/ ac)						Ldg.	Sprt.					
Varieties tested in the 2016 trials (Yield, significant differences and agronomic data only directly comparable to Strongfield)																	
Strongfield (bu/ac)		64	36	61	96												
Strongfield ☼		100	100	100	100	M	14.1	62	46	84	F	F	S	I	MR	MS	S
AAC Cabri ☼	25	94-	98	93-	XX	M	0.1	62	45	86	G	P	MR	R	R	I	MS
AAC Congress ▲	15	100	XX	100	XX	M	-0.6	62	46	81	F	P	MR	R	R	MS	MS
AAC Spitfire ▲	25	97	100	96	XX	M	-0.4	61	46	82	G	P	MS	R	R	MS	S
CDC Carbide VB ▲	25	100	104	100	XX	M	0	62	45	85	G	P	MS	R	R	MS	MS
CDC Precision ▲	15	93-	XX	94	XX	M	-0.4	62	46	82	G	F	MS	R	R	MS	MS
Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to Strongfield)																	
AAC Current ☼	30	99	104	98	XX	M	0	62	44	85	F	F	MS	MR	MR	I	MS
AAC Durafield ☼	22	99	XX	99	XX	M		64	46	76	F	F	S	R	MR	I	S
AAC Marchwell VB ☼	32	99	107	96	98	M	-0.1	63	46	83	F	F	MR	R	R	MS	MS
AAC Raymore ☼	34	97	99	98	94	M	0.8	62	47	82	F	F	MS	MR	MR	I	S
AC Navigator ☼	65	95-	102	93-	93-	M	XX	63	45	77	G	G	S	R	R	S	S
Brigade ☼	69	103	105	103	102	L	XX	63	48	88	G	F	MS	R	MR	I	MS
CDC Desire ☼	34	102	106	101	101	E	0	62	44	83	F	G	MS	R	MR	I	S
CDC Fortitude ☼	32	102	102	102	103	M	-0.6	63	45	81	G	F	MS	R	R	MS	MS
CDC Verona ☼	46	102	103	103	99	M	XX	62	46	82	G	F	MS	R	R	MS	MS
CDC Vivid ☼	34	100	104	99	98	M	0.1	62	45	83	G	F	I	R	MR	I	S
Enterprise ☼	48	101	104	100	102	M	XX	63	44	83	G	F	MS	MR	R	I	MS
Eurostar ☼	47	102	100	105+	99	L	XX	64	47	88	G	F	MS	R	R	I	MS
Transcend ☼	35	102	103	101	100	M	XX	62	47	89	F	F	S	R	R	I	MS

Remarks: For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. Generally, durum wheat is best adapted to southern Alberta. Outside of this area, durum tends to be late maturing and often subject to quality loss. The long term average maturity for Strongfield is 105 days and is rated as Medium (M). Strongfield yields about 10% higher than AC Barrie in areas of best adaptation. Durum varieties are generally more susceptible to Fusarium Head Blight than CWRS wheat varieties. AAC Cabri, AAC Raymore and CDC Fortitude have a solid stem that confers resistance to the wheat stem sawfly. VB - designates a varietal blend to preserve the Sm1 orange wheat blossom midge tolerance gene. New CWAD registrations: AAC Congress (DT856), AAC Stronghold (DT862), CDC Alloy (DT579), CDC Credence (DT583), CDC Dynamic (DT578), CDC Precision (DT577). XX - Insufficient data to describe. † - Flagged for possible removal in 2018.

CANADA WESTERN RED SPRING WHEAT

Variety	Overall Station Years of Testing	Yield Category (% AC Barrie):				Agronomic Characteristics:							Disease Tolerance:					
		Overall Yield	Low < 45 (bu/ac)	Medium 45-75 (bu/ac)	High > 70 (bu/ac)	Mat. Rating	Pro-tein %	Test Weight (lb/bu)	TKW (g)	Height (cm)	Awns (Y/N)	Resistance to:		Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB
			Ldg.	Sprt.														
Varieties tested in the 2016 trials (Yield, significant differences and agronomic data only directly comparable to AC Barrie)																		
AC Barrie (bu/ac)		60	36	57	81													
AC Barrie		100	100	100	100	M	14	62	38	87	N	G	G	MR	I	S	MS	I
AAC Cameron VB ▲	28	116+	XX	115+	117+	M	-0.7	62	43	94	Y	G	F	S	R	S	I	I
AAC Connery ☺	42	106+	XX	108	108+	E	0	62	40	81	N	VG	G	MR	I	R	I	MR
AAC Prevail ▲	42	106+	XX	107+	107+	L	-0.6	62	39	96	Y	G	G	S	S	R	MS	I
AAC Redberry ▲	28	108+	XX	108+	107+	M	-0.1	63	40	83	Y	G	G	R	I	R	MS	I
AAC Viewfield ▲	28	117+	XX	117+	116+	L	-0.4	63	40	75	Y	VG	G	S	MR	R	I	I
Carberry ☺	81	106+	116+	104	103	L	-0.1	62	39	78	Y	VG	F	MR	R	MR	MS	MR
CDC Bradwell ▲	28	108+	XX	109+	109+	L	-0.4	63	38	83	Y	VG	F	MR	R	MS	MS	I
Go Early ▲	42	104	XX	105	104	VE	0.3	61	40	93	Y	G	P	I	MR	I	S	I
SY Slate ▲	28	106+	XX	107	103	M	0.2	62	40	84	Y	F	P	MS	S	MR	MS	I
SY479 VB ☺	42	97-	XX	100	95-	M	0.8	62	40	94	Y	VG	VG	MS	R	S	MS	I
SY637 ☺	42	103	XX	101	103	L	0.8	62	39	91	Y	G	XX	MS	MR	MR	I	MR
Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to AC Barrie)																		
5603HR ☺	63	105+	104	107+	104+	L	-0.5	63	33	87	Y	G	VG	MS	I	MS	MR	I
5604HR CL ☺	76	99	102	98	99	E	-0.7	63	33	87	Y	G	G	MS	I	XX	MS	I
5605HR CL ☺	43	109+	XX	114+	106+	M	-0.2	64	38	91	Y	G	XX	R	MR	I	MS	MR
AAC Bailey ☺	58	103	102	104	103	M	-0.6	63	37	92	N	G	G	MS	I	I	I	I
AAC Brandon ☺	41	114+	106	117+	113+	M	-0.2	64	38	81	Y	VG	P	MR	S	MR	I	MR
AAC Elie ☺	41	115+	107	120+	112+	M	-0.1	64	38	81	Y	G	F	I	I	MR	I	I
AAC Redwater ☺	41	103	96	106	104	E	0	64	35	87	Y	G	VG	MS	I	MR	MS	I
AC Eatonia †	78	94-	87-	97	92-	M	0.4	62	35	92	N	P	G	I	MR	I	MS	XX
AC Intrepid † ☺	107	102	98	103	105+	E	0	62	39	90	N	G	P	I	MR	MR	MS	MS
AC Splendor †	153	95-	93-	96-	98	VE	0.9	61	37	89	N	F	F	I	I	I	I	MS
Alvena † ☺	68	101	99	101	103	E	0.1	63	37	90	N	G	P	MR	MR	I	XX	MS
Cardale ☺	41	105+	100	106+	105	M	-0.3	63	37	84	Y	G	G	I	S	MS	MS	MR
Coleman	43	101	XX	105	98	M	0	64	37	93	Y	F	P	S	S	MR	I	MR
CDC Abound ☺	88	110+	108+	110+	112+	M	-0.1	63	40	82	Y	G	F	I	I	MS	MS	S
CDC Go	92	110+	103	112+	116+	M	-0.1	61	42	83	Y	G	VP	MS	I	MR	S	MS
CDC VR Morris ☺	41	109+	105	111+	107	M		65	37	84	N	G	P	I	I	XX	I	MR
CDC Osler †	74	106+	103	106	108+	E	0	61	35	85	N	G	F	MR	MR	I	I	S
CDC Plentiful ☺	41	106+	100	108+	106+	M	-0.2	64	35	87	N	VG	P	R	I	MR	I	MR
CDC Stanley ☺	76	113+	114+	114+	113+	M	-0.8	63	34	87	N	G	G	MR	S	I	I	MS
CDC Titanium VB ☺	41	108+	XX	112+	103	E	0.5	65	41	87	Y	G	P	MS	I	R	MS	MR
CDC Thrive † ☺	66	108+	107	107+	110+	M	-0.4	63	36	88	N	G	P	MR	I	I	I	MS
CDC Utmost VB ☺	53	112+	115+	112+	111+	M	-0.2	64	36	85	N	G	G	MS	S	I	I	MS
Glenn ☺	61	104	110+	100	104	L	-0.2	65	36	85	Y	VG	F	I	I	MR	I	I
Goodeve VB ☺	96	105+	107+	103	104	M	-0.1	62	36	88	N	VG	G	MR	MS	I	MS	S
Harvest ☺	118	102	98	103	104+	M	-0.1	62	36	84	N	VG	VG	MR	S	MR	MS	S
Katepwa † ☺	278	98-	98-	97-	98-	E	-0.2	62	35	93	N	F	F	MR	MR	MS	MS	I
Lillian ☺	87	104+	111+	100	104	M	0.2	61	37	86	N	F	G	I	MR	R	MR	S
Muchmore ☺	53	111+	114+	107	111	L	-0.9	63	37	75	Y	VG	G	MR	R	MR	MS	MS
Peace ☺	53	100	100	97	103	M	0.1	63	37	92	N	G	P	R	R	MR	XX	S
Shaw VB ☺	53	112+	116+	109+	113+	M	-0.9	63	37	92	N	G	G	S	MR	I	MS	MS
Stettler ☺	69	112+	119+	109+	111+	M	-0.3	63	37	84	Y	G	G	R	I	I	S	MS
Superb ☺	184	112+	110+	112+	115+	L	-0.4	62	42	85	Y	G	F	I	MR	S	S	MS
SY433 ☺	44	104	101	104	104	M		64	39	95	Y	G	G	I	S	XX	I	MR
Thorsby ▲	43	106+	XX	110	105	E	-0.5	64	38	89	N	G	F	I	S	R	MS	I
Unity VB ☺	71	110+	111+	110+	111+	M	-0.7	64	36	89	Y	F	G	MS	R	MS	MS	I
Vesper VB ☺	45	106+	106	108+	104	M	-1.5	63	37	90	Y	F	F	I	S	S	I	I
Waskada ☺ †	67	100	101	98	102	M	0.1	64	37	92	Y	F	VG	MR	R	MS	MS	MR
WR859 CL ☺	79	106+	110+	103	107+	M	-0.4	64	34	81	Y	G	G	R	R	I	MS	MR

REMARKS: For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. Several CWRS varieties will be reclassified to the new CNHR wheat class, effective August 1, 2018. The varieties affected are AC Abbey, AC Cora, AC Eatonia, AC Majestic, AC Michael, AC Minto, Alvena, Alikat, CDC Makwa, CDC Osler, Columbus, Conway, Harvest, Kane, Katepwa, Leader, Lillian, McKenzie, Neepawa, Park, Pasqua, Pembina, Thatcher, Unity VB and 5603HR. For more information see the Canadian Grain Commission website www.grainscanada.gc.ca. The long term average maturity for AC Barrie is 106 days and rated as Medium (M). Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date. Under high levels of FHB all varieties will sustain damage. Moderately Resistant (MR) and Resistant (R) ratings for FHB do not equate to immunity. Varieties rated Intermediate (I) to Susceptible (S) for loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for infection. AC Eatonia, Lillian, CDC Landmark VB and CDC Hughes VB have a solid stem that confers resistance to the wheat stem sawfly. 5604HR CL, 5605HR CL, CDC Abound, CDC Imagine, CDC Thrive and WR589 CL are tolerant to the CLEARFIELD® herbicides Adrenalin SC and Altitude FX. VB - designates a varietal blend to preserve the Sm1 orange wheat blossom midge tolerance gene. New CWRS registrations: AAC Redberry (BW966), AAC Viewfield (BW965), CDC Landmark VB (BW971), CDC Hughes VB (PT588), Parata (PT772), SYslate (BW496). Insufficient data to describe: AAC Whitefox, CDC Landmark VB (BW971), CDC Hughes VB (PT588). † - Flagged for possible removal in 2018.

CANADA WESTERN HARD WHITE SPRING WHEAT

Variety	Overall Station Years of Testing	Yield Category (% AC Barrie):				Agronomic Characteristics:							Disease Tolerance:					
		Overall Yield	Low < 45 (bu/ac)	Medium 45-75 (bu/ac)	High > 70 (bu/ac)	Mat. Rating	Protein %	Test Weight (lb/bu)	TKW (g)	Height (cm)	Awns (Y/N)	Resistance to:		Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB
												Ldg.	Sprt.					
Previously tested varieties (Yield and agronomic data only directly comparable to AC Barrie)																		
AAC Iceberg ☺	39	104	96	106	107	M	-0.7	64	39	86	Y	G	P	MS	I	MR	MS	I
CDC Whitewood ▲	43	107+	XX	110	105	M	-0.9	64	38	87	Y	G	G	S	S	I	MS	I
Snowbird ☺	94	101	99	101	101	M	-0.2	62	36	89	N	G	G	MR	MS	MS	S	I
Snowstar ☺	58	102	99	103	102	M	-0.8	64	30	82	N	G	G	MS	S	MS	I	MS
Whitehawk ☺	42	107	112+	108+	106	E	-0.9	63	33	90	N	G	G	I	MS	MS	MS	I

REMARKS: For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. The long term average maturity for AC Barrie is 106 days and rated as Medium (M). Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date. Under high levels of FHB all varieties will sustain damage. Moderately Resistant (MR) and Resistant (R) ratings for FHB do not equate to immunity. Varieties rated Intermediate (I) to Susceptible (S) for loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for infection. Insufficient data to describe: AAC Whitefox. † - Flagged for possible removal in 2018.

CANADA PRAIRIE SPRING RED WHEAT

Variety	Overall Station Years of Testing	Yield Category (% AC Barrie):				Agronomic Characteristics:							Disease Tolerance:					
		Overall Yield	Low < 45	Medium 45-90 (bu/ac)	High > 90 (bu/ac)	Mat. Rating	Protein %	Test Weight (lb/bu)	TKW (g)	Height (cm)	Awns (Y/N)	Resistance to:		Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB
												Ldg.	Sprt.					
Varieties tested in the 2016 trials (Yield, significant differences and agronomic data only directly comparable to AC Barrie)																		
AC Barrie (bu/ac)		61	42	63	90													
AC Barrie		100	100	100	100	M	13.8	62	38	88	N	G	G	MR	I	S	MS	I
AAC Crossfield ▲	26	119+	XX	119+	XX	M	-1.4	62	43	80	Y	G	XX	MS	I	R	I	I
AAC Crusader ☺	40	116+	XX	116+	117+	M	-1.2	60	41	80	Y	G	P	MR	I	XX	MS	I
AAC Tenacious VB ▲	40	107+	XX	109+	101	M	-1.3	62	39	97	Y	P	VG	R	R	MR	MS	R
Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to AC Barrie)																		
5700PR * ☺	117	117+	XX	121+	113+	L	-1.9	62	42	75	Y	VG	F	MS	R	MS	MS	MS
5702PR * † ☺	52	117+	XX	119+	114+	L	-1.8	61	40	79	Y	G	P	MS	I	MS	I	MS
AAC Foray VB ▲	41	128+	XX	130+	120+	M	-1.7	63	51	85	Y	G	G	MS	I	MR	MS	I
AAC Penhold ☺	41	117+	XX	121+	114+	M	-1.5	63	46	71	Y	VG	G	I	R	MR	I	MR
AAC Ryley ☺	37	118+	XX	120+	114+	M	-0.6	60	48	82	Y	G	G	I	R	S	MS	MS
AC Crystal	278	115+	XX	119+	113+	L	XX	62	42	79	Y	G	P	I	R	S	I	S
AC Foremost *	124	116+	XX	119+	112+	L	XX	62	43	73	Y	VG	F	I	R	S	MS	S
Conquer VB* ☺	51	121+	XX	123+	120+	M	-0.8	62	45	84	Y	F	P	MS	R	MR	I	MS
Enchant VB * † ☺	37	115+	XX	119+	112	M	-0.7	62	48	85	Y	F	G	MS	R	XX	MS	S
SY985 * ☺	51	112+	XX	115+	109+	M	0.1	61	44	78	Y	G	P	R	MR	XX	I	I
SY995 ▲	41	118+	XX	119+	113+	M	-1.9	63	45	79	Y	G	P	S	MR	MR	MS	MS

Remarks: For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. Several CPSR varieties will be reclassified to the CNHR wheat class. AC Foremost, AC Taber, Conquer and Oslo will be reclassified on August 1, 2018 and AC Crystal will be reclassified on August 1, 2019. For more information see the Canadian Grain Commission website www.grainscanada.gc.ca. The long term average maturity for AC Barrie is 106 days and rated as Medium (M). Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date. Under high levels of FHB all varieties will sustain damage. Moderately Resistant (MR) and Resistant (R) ratings for FHB do not equate to immunity. Varieties rated Intermediate (I) to Susceptible (S) for loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for infection. VB - designates a varietal blend to preserve the Sm1 orange wheat blossom midge tolerance gene. New CPSR registrations: AAC Crossfield (HY1632), AAC Entice (HY1627), CDC Terrain (HY537), SY Rowyn (HY2013). XX - Insufficient data to describe. * Yield figures based on direct and indirect comparisons with AC Barrie. † - Flagged for possible removal in 2018.

CANADA WESTERN SPECIAL PURPOSE WHEAT

Variety	Overall Station Years of Testing	Yield Category (% AC Barrie):				Agronomic Characteristics:								Disease Tolerance:					
		Overall Yield	Low < 45	Medium 45-90 (bu/ac)	High > 90 (bu/ac)	Mat. Rating	Protein %	Test Weight (lb/bu)	TKW (g)	Height (cm)	Awns (Y/N)	Resistance to:			Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB
												Ldg.	Sprt.						
Varieties tested in the 2016 trials (Yield, significant differences and agronomic data only directly comparable to AC Barrie)																			
AC Barrie (bu/ac)		63	26	57	88														
AC Barrie ☼		100	100	100	100	M	14.1	62	38	89	N	G	G	MR	I	S	MS	I	
AAC Innova ☼	38	134+	XX	135+	135+	L	-3.2	60	41	82	Y	G	P	S	S	R	I	S	
Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to AC Barrie)																			
AAC NRG097 ☼	41	124+	XX	121+	126+	L	-3	63	47	80	Y	G	F	I	R	S	I	I	
CDC NRG003 *† ☼	51	121+	XX	126+	112+	M	-1.9	61	43	80	Y	G	F	MS	R	XX	MS	S	
NRG010 *† ☼	51	126+	XX	XX	XX	L	-2.6	62	41	83	Y	G	P	MS	R	R	I	MS	
Pasteur *	37	137+	XX	142+	132+	VL	-2.3	62	42	82	N	VG	G	MS	S	MR	I	I	
SY087 ☼	41	120+	XX	122+	114+	M	-1.4	63	40	82	Y	G	F	MS	MR	MR	I	MR	

Remarks: For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. The long term average maturity for AC Barrie is 106 days and rated as Medium (M). Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date. Under high levels of FHB all varieties will sustain damage. Moderately Resistant (MR) and Resistant (R) ratings for FHB do not equate to immunity. Varieties rated Intermediate (I) to Susceptible (S) for loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for infection. New CWSP registrations: AAC Awesome (GP151), CDC Kinley (HW616) and CDC Throttle (GP131). XX-Insufficient data to describe. * Yield figures based on direct and indirect comparisons with AC Barrie. † - Flagged for possible removal in 2018.

CANADA WESTERN SOFT WHITE SPRING WHEAT

Variety	Overall Station Years of Testing	Yield Category (% AC Andrew):				Agronomic Characteristics:								Disease Tolerance:					
		Overall Yield	Low < 45 (bu/ac)	Medium 45-90 (bu/ac)	High > 90 (bu/ac)	Maturity Rating	Protein %	Test Weight (lb/bu)	TKW (g)	Height (cm)	Awns (Y/N)	Resistance to:			Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB
												Ldg.	Shat.	Sprt.					
Varieties tested in the 2016 trials (Yield, statistical differences and agronomic data only directly comparable to AC Andrew)																			
AC Andrew (bu/ac)		83	35	75	116														
AC Andrew *		100	100	100	100	L	10.8	61	39	79	Y	VG	VG	P	S	S	I	MS	I
AAC Indus ☼	24	102	XX	102	105	VL	-0.6	62	44	87	Y	VG	VG	P	S	S	MR	I	MS
Previously tested varieties (Yield, statistical differences and agronomic data only directly comparable to AC Andrew)																			
AAC Chiffon ☼	39	104+	106	105+	101	L	-0.4	62	46	88	Y	G	VG	P	S	S	MR	I	S
AC Meena	51	97-	101	97-	95-	L	0	62	37	80	Y	G	G	F	MS	S	MR	I	S
Sadash ☼	51	110+	113+	107+	109+	L	0.2	63	39	82	Y	VG	VG	P	I	S	R	I	S

REMARKS: For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. AC Andrew yields about 35% more than AC Barrie. In addition to traditional markets, SWS wheat varieties may have demand as a feedstock for ethanol production. *Maturity, resistance to lodging and sprouting are compared with AC Barrie. Varieties rated Intermediate (I) to Susceptible (S) for loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for infection. New CWSWS registrations: AAC Paramount (SWS433). XX - Insufficient data to describe. * Yield figures based on direct and indirect comparisons with AC Andrew.

CANADA NORTHERN HARD RED WHEAT

Variety	Overall Station Years of Testing	Yield Category (% AC Barrie):				Agronomic Characteristics:							Disease Tolerance:						
		Overall Yield	Low < 45	Medium 45-70 (bu/ac)	High > 70 (bu/ac)	Mat. Rating	Pro-tein %	Test Weight (lb/bu)	TKW (g)	Height (cm)	Awns (Y/N)	Resistance to:		Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB	
												Ldg.	Sprt.						
Varieties tested in the 2016 trials (Yield, significant differences and agronomic data only directly comparable to AC Barrie)																			
AC Barrie (bu/ac)		60	36	56	80														
AC Barrie		100	100	100	100	M	14	62	38	88	N	G	G	MR	I	S	MS	I	
AAC Concord ▲	28	107+	XX	108	107	M	-0.9	60	41	88	N	F	F	I	MR	R	I	MS	
Elgin ND ☺	26	114+	XX	116+	112+	M		63	38	87	Y	G	XX	XX	S	MR	I	I	

Remarks: For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. Several CWRS and CPSR varieties will be reclassified to this new CNHR class, effective August 1, 2018. The CWRS varieties are AC Abbey, AC Cora, AC Eatonia, AC Majestic, AC Michael, AC Minto, Alvena, Alikat, CDC Makwa, CDC Osler, Columbus, Conway, Harvest, Kane, Katepwa, Leader, Lillian, McKenzie, Neepawa, Park, Pasqua, Pembina, Thatcher, Unity VB and 5603HR. The CPSR varieties are AC Foremost, AC Taber, Conquer and Oslo. AC Crystal will be reclassified on August 1, 2019. For more information see the Canadian Grain Commission website www.grainscanada.gc.ca. The long term average maturity for AC Barrie is 106 days and rated as Medium (M). Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date. Under high levels of FHB all varieties will sustain damage. Moderately Resistant (MR) and Resistant (R) ratings for FHB do not equate to immunity. AAC Concord has a solid stem that confers resistance to the wheat stem sawfly. Varieties rated Intermediate (I) to Susceptible (S) for loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for infection. Insufficient data to describe: Faller, Prosper. New CNHR registrations: AAC Concord (BW963). XX- Insufficient data to describe.

WINTER WHEAT

Variety	Yield Category (% Radiant)					Agronomic Characteristics:								Disease Tolerance:				
	Overall Station	Low	Medium	High	V. High	Winter Survival	Maturity Rating	Protein %	Test Weight (lb/bu)	TKW (g)	Height (cm)	Kernel Type	Resis. to Ldg	Stripe Rust	Bunt	FHB	Leaf Rust	Stem Rust
	Years of Testing	< 45 (bu/ac)	45-75 (bu/ac)	75-105 (bu/ac)	> 105 (bu/ac)													
CANADA WESTERN RED WINTER																		
Yield, significant differences and agronomic data only directly comparable to Radiant																		
Radiant (bu/ac)	76	37	63	87	114													
Radiant ☼	240	100	100	100	100	100	VG	L	12	63	36	90	HR	VG	S	S	S	S
AAC Elevate ☼	63	106+	106	106	106	XX	G	M	+0.3	63	39	84	HR	VG	MS	MR	I	I
AAC Gateway ☼	66	100	XX	99	102	XX	F	M	+0.9	63	33	77	HR	VG	MR	S	I	I
AAC Goldrush ☼	20	101	XX	XX	105	XX	VG	M	+0.5	63	34	86	HR	G	I	S	I	R
AAC Wildfire ☼	34	115+	XX	119+	115+	XX	VG	VL	+0.3	64	38	86	HR	G	R	MR	MR	I
AC Tempest †	117	97-	96	97	96-	99	P	VL	+1.5	63	37	91	HR	VG	MR	MS	I	S
CDC Buteo	189	96-	94-	97	95-	101	VG	M	+0.3	65	34	91	HR	F	S	S	MR	I
CDC Chase	34	102	XX	97	109	XX	F	M	+0.6	64	33	94	HR	F	MR	S	MS	R
Emerson ☼	79	98	96	95	100	XX	G	M	+0.7	64	30	86	HR	G	MR	S	R	I
Flourish ☼	119	100	99	98	102	104	F	E	+0.6	63	35	80	HR	VG	I	MR	S	I
Moats ☼	90	104+	91	102	107+	108+	G	M	+0.7	64	33	91	HR	F	MR	MS	S	R
CANADA WESTERN SPECIAL PURPOSE																		
Yield, significant differences and agronomic data only directly comparable to Radiant																		
AAC Icefield ☼	30	104	XX	XX	111	XX	F	M	-0.6	63	32	82	HW	VG	R	S	MS	R
CDC Ptarmigan	105	106+	102	108+	105	104	G	M	-1.7	61	34	93	SW	F	S	S	I	S
Peregrine † ☼	63	108+	XX	107+	109+	XX	VG	M	-0.7	64	33	97	HR	F	MR	S	I	R
Pintail ☼	79	108+	XX	109+	109+	XX	VG	L	-1.4	61	29	88	HR	G	MR	S	S	MS
Sunrise	88	108+	102	106	110+	108	G	M	-0.9	61	32	89	SR	G	MR	S	XX	MR
Swainson	54	111+	XX	107	115+	XX	F	M	-0.2	64	38	95	HR	F	MR	S	XX	R

REMARKS: Winter wheat can be grown successfully in all areas of Alberta if seeded into standing stubble within the optimal seeding date period (generally before September 15) and if there is adequate snowfall. Varieties with poor (P) winter survival are generally not suitable outside of southern Alberta. The long term average maturity for Radiant is August 10 and is rated as late (L). Fusarium head blight infection may be reduced if varieties with Intermediate (I) resistance or better are used and when recommended seeding dates are followed. Radiant and AAC Elevate have tolerance to the wheat curl mite, the vector for Wheat Streak Mosaic Virus. To preserve the effectiveness of the wheat curl mite tolerance gene, agronomic practices that eliminate the “green bridge” of plant material that serves as a reservoir for mites should be followed whenever possible. Fields in southern Alberta should be inspected in the fall for infestation by Russian wheat aphid, as it may reduce winter survival. AAC Wildfire expresses some tolerance to Russian wheat aphid. AC Tempest, Radiant and AAC Wildfire have bronze chaff at maturity. AAC Icefield is a new special purpose variety with a hard white kernel that has been granted interim registration to facilitate market research. AAC Icefield expresses high milling yield of very white flour and good gluten strength at lower protein concentrations that may be of interest in some niche markets. CDC Ptarmigan and Pintail have an awnless head which may improve palatability when harvested for forage or silage. AAC Elevate is expected to be available in fall 2017. AAC Wildfire, AAC Goldrush and AAC Icefield will not be available in 2017. New registrations: AAC Goldrush (W526), AAC Icefield (W530). † Flagged for possible removal in 2018.

FALL RYE

Variety	Hybrid or OP Variety	Overall Station Years of Testing	Overall Yield	Yield Category (% Hazlet):				Agronomic Characteristics:					
				Low < 48 (bu/ac)	Medium 48-80 (bu/ac)	High 80-112 (bu/ac)	V. High > 112 (bu/ac)	Winter Survival	Test Weight (lb/bu)	TKW (g)	Falling Number (sec)	Height (cm)	Resistance to Lodging
Yield, significant differences and agronomic data only directly comparable to Hazlet													
Hazlet (bu/ac)			102	48	65	94	137						
Hazlet	OP	48	100	100	100	100	100	EX	59	39	137	109	G
Bono	Hybrid	18	131+	XX	113	132+	133+	EX	59	34	250	105	VG
Brasetto	Hybrid	22	124+	XX	115	140+	120+	EX	59	36	246	104	VG
Guttino	Hybrid	22	123+	XX	116	135	120+	EX	60	36	279	101	VG
Prima	OP	48	85-	80-	80-	86	89	EX	58	33	179	121	F

REMARKS: Hazlet has lower viscosity which improves feed performance in monogastric livestock. Fall rye is much more cold tolerant than winter wheat or winter triticale. The long term average heading date and maturity for Hazlet is June 5 and August 7, respectively. All fall rye varieties are similar for heading and maturity and are considered early. A major factor in marketing rye grain into the milling market is sprouting. This is generally measured using the Hagberg falling number test and is measured in seconds. Typically, a falling number of 180 seconds or greater is preferred by the rye milling market. Falling number is heavily influenced by moisture around harvest time and producers must make sure rye is harvested in a timely manner, similar to wheat crops. There is considerable variation in fall rye varieties for falling number and this must be considered if the milling market is the targeted end-user for rye grain. All fall rye is susceptible to ergot. AFSC crop insurance deadlines for seeding fall rye is September 15, north of the Bow river and September 30, south of the Bow river.

Small Plots

SEE CANOLA NOTES for general information

No averages shown for LONG and SHORT season zones due to limited data (only 2 sites each) in the 2016 canola trials, please visit www.canolaperformancetrials.ca to view data or to make comparisons across years and other locations within these growing zones.

MID Season Zone (9 trials)						
Seed supplier / sponsor	Name	Yield (%5440)	Maturity (days)	Lodging (1-5)	Height (inches)	Disease Tolerance@
Clearfield						
Brett Young	5545 CL	99	101	2.6	49	BL
CANTERRA SEEDS	CS2200 CL	93	102	2.0	51	BL
DL Seeds	DL 1504 +	97	102	2.0	52	BL
Crop Production Services/Proven	PV 200 CL	96	101	2.5	50	BL
	LSD (%)	12				
Liberty Link						
Bayer CropScience	5440	100	100	1.2	52	BL
Bayer CropScience	L130	98	99	1.4	50	BL
Bayer CropScience	L252	108	99	1.9	49	BL
	LSD (%)	17				
Roundup Ready						
Brett Young	6074 RR	99	102	2.0	50	BL/S
Brett Young	6080 RR	100	100	1.8	48	BL
Brett Young	6076 CR	95	101	2.2	51	BL/CR/S
Brett Young	6086 CR	99	102	2.3	51	BL/CR
CANTERRA SEEDS	CS2000	99	100	2.5	50	BL/CR
Cargill - VICTORY Hybrid Canola	V12-1 *	96	100	2.3	49	BL
Syngenta	SY 4187	102	101	1.8	53	BL/CR
Proven Seed / CPS	PV 533 G	101	98	1.7	48	BL
Proven Seed / CPS	VR 9562 GC	106	99	2.0	51	BL/CR
Dekalb	74-44 BL	100	98	2.1	46	BL
Dekalb	74-54 RR	96	98	2.7	47	BL/CR
Dekalb	73-75 RR	100	99	2.6	46	BL
Canola Growers	45H33	101	99	2.1	50	BL/CR
	LSD (%)	11				
CHECK MEAN 5440 (bu/ac)		60				

“**” Indicates varieties with Specialty oil profiles and premiums associated with pricing. Visit www.canolaperformancetrials.ca for more details

“@” Indicates genetic disease resistance based on variety descriptions submitted to CFIA: an “R” or resistant rating to blackleg =BL; Clubroot resistance=CR; and an MR to sclerotinia =S.

“+” indicates variety supported for registration by Western Canada Canola / Rapeseed Recommending Committee

2016 Large Scale Yield Results (% of 5440)

	Long Season Zone	Mid Season Zone	Short Season Zone	Overall
	% of 5440			
45H33	97	97	-	96*
74-44 BL	101	99	99	99
L130	99	99	103	100
L252	100	102	104*	102*
PV 533 G	-	89*	-	95*
5440 (bu/ac)	54	52	61	54

* indicates statistical difference from 5440 using paired t test


- zone average not shown due to less than 5 locations data

FLAX

Variety	Overall Station Years of Testing	Over-all Yield	Yield Category (% CDC Bethune):				Agronomic Characteristics:					Disease Tolerance:		Quality:		
			Low < 20 (bu/ac)	Medium 20 - 35 (bu/ac)	High 35 - 50 (bu/ac)	V. High > 50 (bu/ac)	Maturity Rating	Seed Colour	Seed Size	Height (cm)	Resistance to Lodging	Fusarium Wilt	Powdery Mildew	Oil Content (%)	ALA Content (%)	Iodine Value
Varieties tested in the 2016 trials (Yield, significant differences and agronomic data only directly comparable to CDC Bethune)																
CDC Bethune (bu/ac)		37	14	29	44	58										
CDC Bethune ☼	109	100	100	100	100	100	L	brown	M	57	G	MR	MR	46	55	189
CDC Neela ☼	24	109+	XX	115	102	XX	L	brown	M	55	G	MR	MR	46	59	194
CDC Plava ▲	24	104	XX	110	98	XX	M	brown	M	52	G	MR	XX	47	57	196
CDC Buryu ▲	16	100	XX	104	96	XX	L	brown	L	56	G	MR	MR	46	56	193
VT50 ☼	24	103	XX	105	101	XX	VL	yellow	S	51	VG	MR	XX	47	68	209
Prairie Grande ☼	76	98-	101	102	93-	99	M	brown	M	53	G	MR	MR	46	58	193
WestLin 60 ☼	24	100	XX	103	98	XX	M	brown	M	50	G	MR	XX	46	60	198
WestLin 72 ▲	16	102	XX	100	105	XX	VL	brown	S	51	VG	MR	MR	47	57	193
Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to CDC Bethune)																
AAC Bravo ☼	23	104	XX	XX	103	104+	L	brown	L	64	G	MR	MR	45	60	194
CDC Glas ☼	23	106+	XX	XX	106	XX	L	brown	S	61	G	MR	MR	46	57	192
CDC Sanctuary ☼	28	105+	XX	100	100	108+	VL	brown	M	64	G	MR	MR	46	57	191
CDC Sorrel ☼	32	104	112	104	100	99	L	brown	L	61	F	MR	MR	45	58	193
Hanley ☼	37	97-	99	97	95	97	M	brown	M	53	VG	R	MR	45	59	198
Prairie Sapphire ☼	23	96	XX	XX	97	101	L	brown	M	64	G	MR	MR	48	57	193
Prairie Thunder ☼	40	99	101	98	99	99	L	brown	M	55	G	R	MR	45	58	195
Taurus ☼	27	98-	103	97	XX	XX	L	brown	M	53	VG	MR	R	46	54	187
WestLin 71 ☼	25	95-	101	94	91-	XX	L	brown	M	56	G	MR	MS	48	61	198

REMARKS: For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. The long term average maturity for CDC Bethune in Alberta is 110 days and rated as Late (L). All varieties are immune to flax rust. New registrations: CDC Buryu (FP2316), AAC Prairie Sunshine (FP2357) and WestLin 60 (FP2388). Insufficient data to describe: AAC Prairie Sunshine.

OATS

Variety	Overall Yield	Overall Station Years of Testing	Area:					Yield Category:			Nutritional Data:					
			2	3	4	5	6	Low < 7.0 (t/ac)	Medium 7.1 - 10.0 (t/ac)	High > 10.1 (t/ac)	CP (%)	TDN (%)	Ca (%)	P (%)	K (%)	Mg (%)
Varieties tested in the 2016 trials (Yield, significant differences and agronomic data only directly comparable to CDC Baler)																
CDC Baler (t/ac)	10.1		12.4	10.7	8.6	10.8	8	5.8	9.1	12.9	9.3	61.7	0.3	0.2	1.8	0.2
CDC Baler	100	33	100	100	100	100	100	100	100	100	100	100	100	100	100	100
AC Juniper	94-	23	91	98	98	87	103	111	84-	93	101	102	92	112	102	106
AC Morgan	100	32	102	100	92-	96	114	108	96-	101	99	101	100	114	99	97
AC Mustang	98	33	99	97	95	100	97	95	97	100	103	99	99	106	102	99
CDC Haymaker	99	28	105	96	100	97	99	105	94	100	97	100	98	100	104	98
CDC Seabiscuit 	94	6	91	XX	108	78	96	78	96	99	96	100	89	94	100	100
CDC SO-1	94-	33	84	102	88	93-	96	92	94	95-	103	102	96	105	97	104
Derby	96	6	100	XX	106	89	94	89	93	101	89	100	98	99	100	110
Murphy	103	27	106	104	102	103	103	104	104	102	91	95	95	96	102	99
Waldern	104	26	100	104	98	101	115	101	112+	99	93	99	105	106	94	99
Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to CDC Baler)																
Everleaf	94	5	XX	113	106	72	XX	108	76	67	96	98	105	97	110	92
Foothills	99	21	103	95	101	99	103	99	96	102	99	98	103	103	102	100
Jordan	100	20	107	92	88	100	121	102	102	96	97	100	96	105	97	112

BARLEY

Variety	Overall Yield	Overall Station Years of Testing	Area:					Yield Category:			Nutritional Data:					
			2	3	4	5	6	Low < 8.0 (t/ac)	Medium 8.1 - 12.0 (t/ac)	High > 12.1 (t/ac)	CP (%)	TDN (%)	Ca (%)	P (%)	K (%)	Mg (%)
Varieties tested in the 2016 trials (Yield and agronomic data only directly comparable to CDC Austenson)																
CDC Austenson (t/ac)	10.8		11.8	12.1	11	11.5	8	6.7	9.3	12.8	10.1	67.9	0.3	0.2	1.3	0.2
CDC Austenson ☼	100	35	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Amisk	90-	23	102	92-	91	88-	83-	85	93	90-	104	99	132	106	107	109
CDC Coalition ☼	92-	27	92	93	92	86-	102	92	92	92-	102	100	104	107	106	99
CDC Cowboy ☼	102	27	102	103	98	103	100	106	99	100	95	98	117	107	110	115
CDC Maverick ☼	103	29	105	96	96	104	108	111+	102	101	95	98	123	106	96	116
CDC Meredith ☼	102	16	114	106	93	99	103	111	102	100	95	97	97	98	101	91
Canmore	98	16	105	99	93	99	97	101	93	99	100	99	119	103	98	104
Champion	102	16	104	97	100	102	106+	106	101	101	98	99	105	97	104	100
Claymore	100	16	114	102	97	100	94	106	87	103	93	96	122	93	98	100
Conlon	86-	21	82	95	86	79-	92	80-	80-	91-	99	101	128	111	101	104
Gadsby ☼	100	27	103	106	94	100	101	104	101	98	95	99	129	99	100	103
Sundre ☼	92-	27	97	93	87-	88-	96	86-	96	93-	102	99	134	104	114	115
TR13740	100	16	103	92	99	99	107	95	99	101	99	97	105	97	104	92
Previously tested varieties (Yield and agronomic data only directly comparable to CDC Austenson)																
Busby ☼	93-	19	91	98	71	96	88	86-	95	97	105	99	128	100	100	103
Chigwell ☼	90-	19	80	95	87	86-	97	91-	82-	91-	106	99	152	101	105	116
Muskwa	90-	13	101	93	XX	86-	91	86-	91	91-	114	100	167	107	121	127
Ponoka ☼	96	19	90	100	100	96	95	96	94	97	101	99	148	103	104	115
Ranger	95	13	104	99	XX	96	88	85-	97	99	109	98	171	101	128	131
Seebe	96-	19	95	103	92	95-	95	95	96	97	109	96	136	109	113	103
Trochu ☼	88-	18	XX	91	73	91-	85-	82-	89	92-	103	101	139	107	109	119
Vivar ☼	93-	19	95	99	78	92-	93	90-	98	93	108	100	144	99	104	123
Xena	95-	19	87	101	84	92-	101	96	90	95	106	99	111	105	102	106

TRITICALE

Variety	Overall Yield	Overall Station Years of Testing	Area:					Yield Category:			Nutritional Data:					
			2	3	4	5	6	Low < 8.0 (t/ac)	Medium 8.1 - 12.0 (t/ac)	High > 12.1 (t/ac)	CP (%)	TDN (%)	Ca (%)	P (%)	K (%)	Mg (%)
Varieties tested in the 2016 trials (Yield and agronomic data only directly comparable to Taza)																
Taza (t/ac)	10.7		12.3	12.3	8.8	10.4	9.5	6.3	10.7	14.5	8.8	62.8	0.2	0.2	1.3	0.1
Taza ☼	100	37	100	100	100	100	100	100	100	100	100	100	100	100	100	100
94I043057	100	7	103	XX	110	93	101	89	103	100	106	102	91	102	90	108
Bunker ☼	99	29	99	93	111+	99	100	106	98	98	103	99	111	96	97	115
Sunray	101	30	97	100	105	100	105	99	102	100	104	104	105	103	103	109
Tyndal ☼	99	36	98	105	109	96-	96	100	98	99	103	101	101	102	97	105
Previously tested varieties (Yield and agronomic data only directly comparable to Taza)																
AAC Chiffon	111	8	124	123	118	92	126	105	113	114	97	101	88	97	106	108
AAC Innova	104	8	121	119	123	83	102	95	107	107	108	100	87	106	109	107
AAC Ryley	97	8	108	104	87	87	110	86	100	101	103	100	95	106	89	117
AC Ultima	103	7	104	98	120	100	XX	109	100	104	110	100	101	93	97	122
Pasteur	94	8	110	96	97	84	103	91	99	91	107	103	96	99	107	117
Pronghorn	102	21	107	103	114	99	101	108+	99	103	103	100	102	99	109	106
Sadash	102	8	111	102	109	91	121	101	108	97	99	99	88	91	110	105

PULSE MIXTURES

Variety	Overall Yield	Overall Station Years of Test-ing	Area:						Yield Category:			Nutritional Data:					
			2	3	4	5	6	Low < 8.0 (t/ac)	Medium 8.1 - 10.0 (t/ac)	High > 10.1 (t/ac)	CP (%)	TDN (%)	Ca (%)	P (%)	K (%)	Mg (%)	
Varieties tested in the 2016 trials (Yield and agronomic data only directly comparable to CDC Austenson)																	
CDC Austenson (t/ac)	7.4		5.3	XX	XX	7.2	8.7	5.2	8.9	XX	10	65.9	0.3	0.2	1.4	0.2	
CDC Austenson	100	5	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
CDC Baler	116	5	111	XX	XX	108+	126	111+	119	XX	95	96	113	110	106	124	
Taza	109	5	110	XX	XX	104	114	109	110	XX	86	96	77	104	103	89	
CDC Austenson/CDC Horizon	105	5	109	XX	XX	100	107	108	102	XX	101	97	156	102	111	133	
CDC Austenson/CDC Meadow	101	5	105	XX	XX	96	104	104	99	XX	113	77	165	106	106	164	
CDC Baler/CDC Horizon	101	5	111	XX	XX	102	96	113	94	XX	109	94	173	101	123	145	
CDC Baler/CDC Meadow	103	5	105	XX	XX	102	103	108	100	XX	107	96	164	105	120	144	
Taza/CDC Horizon	108	5	96	XX	XX	105	119	104	111	XX	116	96	179	106	106	137	
Taza/CDC Meadow	100	5	99	XX	XX	97	104	104	98	XX	101	95	194	98	103	145	
Varieties tested in the 2012 - 2014 trials (Yield and agronomic data only directly comparable to Vivar)																	
Vivar (t/ac)	8.6		7.9	11.2	4.4	9	8	5.8	9.7	10.3	9.4	63.5	0.5	0.2	1.2	0.2	
Vivar	100	19	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Murphy	119+	18	102	106	158	123+	100	129	108	125+	88	94	77	99	129	88	
Pronghorn	111	19	98	96	109	116	114	106	105	122	96	101	63	105	103	75	
Murphy/40-10	105	12	XX	90	132	102	92	122	86	113	142	98	161	129	117	141	
Pronghorn/40-10	104	12	XX	97	112	105	93	110	88	122	125	98	150	115	103	134	
Vivar/40-10	97	12	XX	68	108	92	121	114	84	97	140	98	170	107	108	141	
Murphy/CDC Horizon	112	19	82	106	144	113	102	121	97	120+	114	94	130	100	124	114	
Pronghorn/CDC Horizon	111	19	85	98	133+	111	117	120	101	112	125	98	143	105	105	106	
Vivar/CDC Horizon	98	19	94	99	112	96	94	103	87-	105	128	97	162	101	107	116	
Murphy/CDC Meadow	105	7	74	105	XX	117+	103	96	94	119+	104	95	116	101	123	95	
Pronghorn/CDC Meadow	101	7	81	91	XX	109	118	107	95	101	122	99	124	113	105	95	
Vivar/CDC Meadow	99	7	92	94	XX	104	98	101	98	98	115	100	187	89	98	119	

DRY BEAN – NARROW ROW

Variety	Type	Site Years 1997-2016	Overall Yield	Days to Bloom ¹	Days to Maturity	TSW ² (g)	Plant Height (cm)	Lodging ³ (1-5)	Growth Habit ⁴
AC Black Diamond (kg/ha)			3174						
AC Black Diamond	Black Shiny	20	100	57	103	253	36	2.3	II
AAC Black Diamond 2	Black Shiny	4	106	60	3	261	34	1.8	II
CDC Blackcomb	Black Matte	6	78	64	1	186	36	1.3	II
Island (kg/ha)			4155						
Island	Pinto	10	100	56	102	344	42	2.7	II
AAC Burdett	Pinto	5	96	58	-4	371	40	1.3	II
AAC Explorer (A)	Pinto	1	101	52	-4	345	39	2.8	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	Pinto	8	99	62	4	342	44	2	II
Winchester	Pinto	5	80	58	7	302	45	2.1	II
AAC Tundra (kg/ha)			4559						
AAC Tundra	Great Northern	6	100	54	98	365	44	2.4	II
AAC Whitehorse	Great Northern	5	108	53		388	43	2.4	II
AAC Whitestar	Great Northern	2	97	48	-5	365	46	2	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; 1 Days to bloom from seeding; 2 Thousand Seed Weight; 3 Lodging: 1 = erect, 5 = flat. 4 Growth Habit: I = determinate bush, II = indeterminate bush, III = indeterminate prostrate. XX - Insufficient data to describe.

DRY BEAN – WIDE ROW

Variety	Type	Site Years 1997-2016	Overall Yield	Days to Bloom ¹	Days to Maturity	TSW ² (g)	Plant Height (cm)	Lodging ³ (1-5)	Growth Habit ⁴
AC Black Diamond (kg/ha)			3017						
AC Black Diamond	Black Shiny	40	100	57	103	265	38	2.2	II
AAC Black Diamond 2	Black Shiny	7	102	58	2	258	38	2.3	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
AAC Burdett	Pinto	7	99	55	-5	352	44	2.2	II
AAC Explorer (A)	Pinto	2	93	XX	1	339	36	3.8	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)			3570						
AAC Tundra	Great Northern	13	100	52	97	349	42	2.9	II
AAC Whitehorse	Great Northern	10	98	51	0	371	43	2.8	II
AAC Whitestar	Great Northern	4	93	54	0	353	47	2.9	II
AC Polaris	Great Northern	6	107	62	7	300	37	4.1	II
AC Resolute	Great Northern	10	97	51	3	342	41	3	II
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
AAC Y012 (A)	Yellow	2	114	XX	1	406	36	2.1	I
AAC Y015 (A)	Yellow	2	81	XX	1	386	34	1.9	I
Myasi	Yellow	9	89	63	6	350	34	2.1	I
Viva (kg/ha)			3137						
Viva	Pink	29	100	54	102	258	34	3.8	III

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

CHICKPEAS

Variety	Type	Overall Station Years of Testing	Agronomic Characteristic				
			Overall Yield ¹	TSW ² (g)	Maturity Rating ³	Plant Height (cm)	Tolerance to Ascochyta ⁴
Varieties tested in the 2016 trials (Yield and agronomic data only directly comparable to CDC Frontier)							
CDC Frontier (kg ha⁻¹)			3948				
CDC Frontier1	Kabuli	32	100	362	L	44	F
CDC Consul (A)	Desi	7	92	298	M	40	F
CDC Corinne	Desi	17	107	250	M	45	F
CDC Cory	Desi	17	101	277	M	46	F
CDC Palmer (A)	Kabuli	7	95	424	M	38	F
CDC Alma	Kabuli	21	89	380	ML	39	VP
CDC Leader	Kabuli	17	97	400	ML	41	F
CDC Orion	Kabuli	21	94	452	ML	43	P
Previously tested varieties							
CDC Vanguard	Desi	16	92	230	ML	42	F
Amit	Kabuli	28	90	268	L	44	F
CDC Luna	Kabuli	19	88	377	ML	38	P

REMARKS: All four trials: Bow Island, Brooks, Lethbridge and Medicine Hat were grown in Area 1. A = First year entries (2016). 1 Yields are reported relative to CDC Frontier. 2 TSW: Thousand Seed Weight. 3 Maturity Ratings: E = Early, M = Medium, ML = Medium to Late, L = Late. 4 Tolerance to Ascochyta: VP = Very Poor, P = Poor, F = Fair.

LENTILS

Market Class	Variety	Overall Yield	Overall Station Years of Testing	Agronomic Characteristic:					Disease Tolerance: ⁶	
				TSW ² (g)	Plant Height (cm)	Maturity Rating ³	Cotyledon Colour ⁴	Seed Coat Colour ⁵	Ascochyta	Anthracnose
Varieties tested in the 2016 trials (Yield and agronomic data only directly comparable to CDC Maxim)										
	CDC Maxim (kg ha-1)	2952								
	CDC Maxim (CL)¹	100	23	40	34	E	R	GR	G	G
Extra Small Red	CDC Rosie	104	13	30	35	EM	R	GR	G	G
	CDC Roxy	116	3	26	31	E/M	R	G	G	G
Small Red	CDC Dazil (CL)	93	19	35	35	E-M	R	GR	G	F
	CDC Scarlet	106	13	38	35	EM	R	GR	G	F
Large Red	CDC KR-1	104	17	52	38	M	R	GR	G	G
Small Green	CDC Invincible (CL)	97	22	33	35	E	Y	G	G	G
Medium Green	CDC Impulse	101	3	39	34	E/M	R	G	G	G
Large Green	CDC Greenstar	80	3	56	34	M/L	Y	G	G	F
	CDC Impower (CL)	81	17	67	40	ML	Y	G	G	VP
	CDC Improve (CL)	83	17	72	38	M	Y	G	F	VP
Previously tested varieties (Yield and agronomic data only directly comparable to CDC Redberry)										
	CDC Redberry (kg ha-1)	2666								
	CDC Redberry¹	100	24	43	37	E	R	GR	G	G
Extra Small Red	CDC Impala (CL)	98	17	31	36	E	R	GR	G	G
	CDC Imperial (CL)	86	19	30	36	E	R	GR/BR	G	G
	CDC Redbow	104	13	32	34	E	R	GR	G	G
	CDC Rosebud	99	13	30	34	E	R	T	G	G
	CDC Ruby	101	14	29	35	E	R	GR	G	G
Small Red	CDC Cherie	108	3	40	32	E-M	R	G	G	F
	CDC Impact (CL)	85	8	37	34	E	R	GR	G	P
	CDC Imax (CL)	103	16	35	49	E-M	R	GR	G	F
	CDC Redcliff	116	11	38	38	E-M	R	GR	G	F
	CDC Redcoat	98	13	42	34	E	R	GR	G	G
Small Green	CDC Viceroy	111	7	31	35	E	Y	G	G	G
Medium Green	CDC Imigreen (CL)	85	11	60	47	M	Y	G	G	VP
	CDC Impress (CL)	90	11	52	40	M	Y	G	G	P
Large Green	CDC Greenland	93	11	67	41	M-L	Y	G	G	VP
French Green	CDC Peridot (CL)	105	2	38	XX	E	Y	MRB	F	P

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. CL= Clearfield variety; XX = Insufficient data to describe. 1 Yields are reported relative to CDC Maxim (CL) or CDC Redberry. CDC Maxim and CDC Redberry belong to Small Red Market Class. 2 Thousand Seed Weight. 3 Maturity: E = Early, M = Medium, L = Late, VL = Very Late. 4 Cotyledon Color: R = Red, Y = Yellow, G = Green; 5 Seed Coat Color/Patterns: G = Green, GR = Grey, BR = Brown, FG = French Green, T = Tan, MRB = Marbled. 6 Disease tolerance: VP = Very Poor, P = Poor, F = Fair, G = Good.

FIELD PEA – GREEN

Variety	Overall Yield (%)	Overall Station Years of Testing	Area:										Agronomic Characteristics:				
			1		2		3		4		5		Maturity Rating ¹	Vine Length (cm)	TSW ² (g)	Stability ³ (1-9)	
			Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years					
Varieties tested in the 2016 trials (Yield and agronomic data only directly comparable to CDC Limerick)																	
CDC Limerick (kg/ha)	4657		3511		4310		6047		4417		7329						
CDC Limerick	100	76	100	12	100	24	100	12	100	23	100	5	L	77	211	3.3	
AAC Radius	92-	44	94	8	90-	11	88-	6	94-	16	87	3	M	76	217	3.6	
AAC Royce	96-	27	100	5	90	5	92	4	99	11	92	2	M	66	249	3.6	
CDC Greenwater	106+	42	106	8	109	11	105	6	106+	14	97	3	L	74	230	2.8	
Fully tested varieties: 2013 - 2014 (Yield and agronomic data only directly comparable 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	
CDC Pluto	96-	52	101	8	96	17	85-	8	100	16	92	3	M	82	170	6	
CDC Raezer	105	52	91	8	110	17	98	8	107	16	116	2	M	89	227	4.2	
CDC Tetris	106	52	102	8	109+	17	93	8	110+	16	115+	3	L	91	215	4.4	
Fully tested varieties: 2004 - 2012 (Yield and agronomic data only directly comparable to Cooper)																	
Cooper (kg/ha)	4763		4947		3672		5977		4835		4962						
Cooper ☼	100	121	100	18	100	38	100	18	100	36	100	11	L	76	270	3.6	
CDC Sage	82-	31	79	3	81-	8	82-	7	84-	13	XX	XX	M	75	197	3.3	
CDC Striker	96-	39	92	3	109	10	104	5	89-	21	XX	XX	M	72	255	3	
Mendel ☼	91-	38	75-	3	95	12	89-	6	91-	15	95	2	M	78	205	3.9	

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 susceptible. XX = Insufficient data to describe; † = Flagged for removal. ☼ = Protected by Plant Breeder's Rights (PBR). 1 Maturity: E = Early, M = Medium, L = Late; 2 Thousand Seed Weight: g; 3 Stability: 1 = Erect, 9 = Flat; 4 Tolerance to: P = Poor, F = Fair, G = Good, VG = Very Good; 5 Seed Coat Dimpling: VG = Very Good (0 - 5%), G = Good (6 - 20%), F = Fair (21 - 50%).

FIELD PEA – GREEN — CONT.

Variety	Disease Tolerance: ⁴				
	Mycosphaerella Blight	Fusarium Wilt	Bleaching	Seed Coat Breakage	Seed Coat Dimpling ⁵
Varieties tested in the 2016 trials (Yield and agronomic data only directly comparable to CDC Limerick)					
CDC Limerick (kg/ha)					
CDC Limerick	F	F	G	VG	G
AAC Radius	F	F	G	G	G
AAC Royce	F	F	G	F	F
CDC Greenwater	F	G	G	F	F
Fully tested varieties: 2013 - 2014 (Yield and agronomic data only directly comparable to CDC Patrick)					
CDC Patrick (kg/ha)					
CDC Patrick	F	G	G	G	G
CDC Pluto	F	F	G	G	G
CDC Raezer	F	G	G	G	G
CDC Tetris	F	G	G	G	G
Fully tested varieties: 2004 - 2012 (Yield and agronomic data only directly comparable to Cooper)					
Cooper (kg/ha)					
Cooper ☼	F	F	G	F	G
CDC Sage	F	G	G	VG	G
CDC Striker	F	G	G	G	F
Mendel ☼	F	F	G	F	G

FIELD PEA – YELLOW

Variety	Overall Yield (%)	Overall Station Years of Testing	Area:										Agronomic Characteristics:			
			1		2		3		4		5		Mat. Rating ¹	Vine Length (cm)	TSW ² (g)	Stand-ability ³ (1-9)
			Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years				
Varieties tested in the 2016 trials (Yield and agronomic data only directly comparable to CDC Amarillo)																
CDC Amarillo (kg/ha)	5123		3688		4594		6715		5073		7798					
CDC Amarillo	100		100		100		100		100		100		M	85	226	2.6
AAC Barrhead (A) ☼	100	14	97	2	97	3	97	3	105+	5	101	1	E	80	235	3.3
AAC Carver (A) ▲	104	14	103	2	92	3	105	3	107+	5	125	1	E	85	245	3.9
CDC Inca	104	28	101	5	98	7	112+	5	104	9	109	2	M	85	232	2.2
CDC Meadow	96-	63	95	10	100	20	89-	10	95-	19	93	4	M	81	203	3.9
LN4228 ▲	93-	45	90-	8	95	13	89	7	95	14	93	3	M	69	254	2.1
Previously tested varieties																
AAC Lacombe ☼	105+	47	107+	8	101	16	112	6	107+	14	101	3	M	73	255	2.3
AAC Peace River	92-	49	89-	8	93-	16	93	6	97	16	73	3	VE	68	217	3.8
Abarth	98-	49	101	8	106	17	88-	7	94	14	89	3	M	77	249	3.6
Fully tested varieties: 2012-2014 (Yield and agronomic data only directly compared to CDC Meadow)																
CDC Meadow (kg/ha)	4982		3943		4277		6160		5316		6689					
CDC Meadow	100		100		100		100		100		100		M	81	207	3.6
CDC Saffron	103	47	110	8	103	16	99	7	101	13	101	3	M	84	236	4.3
Hugo ☼	93-	47	104	7	87-	15	91	8	96	14	80-	3	M	73	210	5.2
Stella ☼ NR F	80-	45	75-	7	80-	15	84-	8	80-	12	78-	3	M	95	213	3.9
Fully tested varieties: 2003-2011 (Yield and agronomic data only directly comparable to Cutlass)																
Cutlass (kg/ha)	4485		3388		3503		5654		4816		3932					
Cutlass ☼ †	100		100		100		100		100		100		M	71	228	4.1
Agassiz ☼	103	43	99	5	103	10	102	8	104	19	XX	XX	M	77	237	2.9
CDC Hornet	107+	43	99	6	111+	14	111+	8	102	13	128	2	M	89	215	3.7
CDC Prosper	97-	44	90	4	97	12	97	9	99	18	94	1	E	73	150	3.9
CDC Treasure	100	44	96	4	103	12	99	9	100	18	116	1	E	80	217	3.4
Thunderbird	97	37	88	5	99	10	99	9	98	13	XX	XX	M	76	229	2.1
Fully tested varieties: 2000-2005 (Yield and agronomic data only directly comparable to Carrera)																
Carrera (kg/ha)	4126		2913		2779		5248		4681		4016					
Carrera ☼	100		100		100		100		100		100		E	54	257	4.7
CDC Golden	105	36	99	5	109	12	99	7	105	11	XX	XX	M	70	223	3.5

REMARKS: Stella is a silage type pea. All the yellow pea varieties listed in the table are Powdery Mildew resistant except Carrera that is susceptible. ☼ = Applied for PBR protection. A = First year entries (2016). NR = Variety not registered with CFIA. F = Forage type. XX = Insufficient data to describe. ☼ = Protected by Plant Breeder's Rights (PBR). 1 Maturity: E = early, M = medium, L = Late; 2 Thousand Seed Weight: g; 3 Standability: 1 = erect, 9 = flat; 4 Tolerance to: P = poor, F = fair, G = good, VG = very good; 5 Seed Coat Dimpling: VG = very good (0-5%), G = good (6-20%), F = fair (21-50%); 6 Green Seed Coat: G = good (0-10%), F = fair (11-25%).

FIELD PEA – YELLOW — *CONT.*

Disease Tolerance:⁴

Variety	Myco-sphaerella Blight	Fusarium Wilt	Seed Coat Breakage	Seed Coat Dimpling ⁵	Green Seed Coat ⁶
Varieties tested in the 2016 trials (Yield and agronomic data only directly comparable to CDC Amarillo)					
CDC Amarillo (kg/ha)					
CDC Amarillo	F	G	F	F	G
AAC Barrhead (A) ☼	F	F	G	G	XX
AAC Carver (A) ▲	F	F	G	G	XX
CDC Inca	F	F	G	G	F
CDC Meadow	F	F	G	G	G
LN4228 ▲	F	F	F	F	G
Previously tested varieties					
AAC Lacombe ☼	F	P	G	F	G
AAC Peace River	F	F	F	G	G
Abarth	F	F	F	G	G
Fully tested varieties: 2012-2014 (Yield and agronomic data only directly compared to CDC Meadow)					
CDC Meadow (kg/ha)					
CDC Meadow	F	F	G	G	G
CDC Saffron	F	F	G	F	G
Hugo ☼	F	F	G	F	F
Stella ☼ NR F	F	F	G	G	F
Fully tested varieties: 2003-2011 (Yield and agronomic data only directly comparable to Cutlass)					
Cutlass (kg/ha)					
Cutlass ☼ †	F	F	F	F	G
Agassiz ☼	F	F	G	VG	G
CDC Hornet	F	F	F	F	G
CDC Prosper	F	G	G	F	G
CDC Treasure	F	F	G	F	F
Thunderbird	F	F	G	VG	XX
Fully tested varieties: 2000-2005 (Yield and agronomic data only directly comparable to Carrera)					
Carrera (kg/ha)					
Carrera ☼	P	F	F	G	XX
CDC Golden	F	F	G	G	G

SOYBEANS

Variety	Irrigation:		Agronomic Characteristic:					
	Yield (%) Check ¹	Site Years Tested	Days to Flowering	Pod Clearance ² (cm)	Plant Height (cm)	Relative Days to Maturity ³	TSW ⁴ (g)	Seeds per Pound
Varieties tested in the 2016 trials (Yield and agronomic data only directly comparable to McLeod)								
MCLEOD (kg ha-1)	3497							
MCLEOD	100	15	54	7	66	121	155	2926
22-60	102	8	51	4	57	1	145	3128
23-11	98	8	53	4	68	1	142	3194
23-60	106	8	49	4	72		143	3172
Akras	114+	15	58	10	65	2	140	3240
CFS 16.3.02 (A)	95	4	51	4	74	-5	133	3410
CHU 2425 (A)	85-	4	51	5	79	-8	149	3044
Notus	108	8	50	4	56		175	2592
Podaga (A)	97	4	51	7	81	4	159	2853
S 0009	100	8	49	5	62	-8	148	3065
S 001 (A)	105	4	53	5	77	-2	163	2783
S 003 (A)	106	4	51	6	67	-8	174	2607
S 006 (A)	118+	4	49	4	66	-8	133	3410
S 007	106	8	50	4	63	0	146	3107
Previously tested varieties								
900Y61 ☼	90-	11	54	7	56	1	150	3024
NSC Moosomin	78-	11	53	6	49	-4	138	3287
NSC Reston	103	11	54	8	61	-2	128	3544
NSC Vito	89-	11	53	7	71	0	132	3436
P001T34	65-	11	53	5	46	-9	136	3335
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: CFS 12.5.01, CFS 13.2.01, Hero, NSC Tilston, NSC Watson, P002T34, P006T78, Pro 2525, TH 32004, TH33003, TH 33005 and TH35002. All four trials: Bow Island, Brooks Lethbroidge and Medicine Hat were grown under irrigation. A - first year entries (2016). 1 Yields are reported relative to MCLEOD, yields that are statistically higher (+) or lower (-) than the check are indicated. 2 Distance from the ground level to lowest pod tip. 3 Maturity is reported as +/- days relative to MCLEOD - averaged across the Brooks, Bow Island and Medicine Hat trials. 4 TSW: Thousand Seed Weight.