

Canola Variety Information for 2011

WITH the absence of the Prairie Canola Variety Trials in 2010, the only other independent, prairie-wide source of canola variety performance data is registration data. This data is accepted by the Western Canadian Canola/Rapeseed Recommending Committee and used to register varieties with the Canadian Food Inspection Agency Variety Registration office. The data presented in the table includes most commercial varieties with seed available for 2011 planting.

The Alberta Cereal and Oilseed Committee does not take any responsibility for the accuracy or validity of the canola performance data.

The WCC/RRC trial data is a two year data set, where the first year “private” data is from trials conducted only by the breeding organization, and the second year “co-op” data is from sites publicly organized through WCC/RRC. The varieties are tested at 25 or more locations over the two years and compared to standard check varieties. Trial design was small plot replicated trials, with weed control managed through conventional herbicides (not by herbicide tolerance specific products). Trial protocols aim for minimal weed competition in order to only show the genetic (yield, height, maturity, lodging, quality) differences between the varieties under various conditions. Contact Raymond Gadoua with the Canola Council of Canada for a complete summary of canola registration data from 1998–2009 (gadouar@canolacouncil.org or (306) 683-2403).

Note that data shown is from different years and all varieties are NOT tested within the same year and location. The table indicates which years the variety data is derived from. Although the numbers are an average of performance at all locations, an individual variety may perform unpredictably different at specific location/years. Industry variety performance data from individual seed companies can be used to complement the registration data for variety purchase decisions.

Blackleg Rating

The blackleg rating represents disease tolerance relative to the highly susceptible variety Westar. Varieties with a resistant (R) or moderately resistant (MR) rating for blackleg have shown the greatest ability to suppress blackleg incidence and severity, but can still develop some lesions or cankers. Newer pathotypes of blackleg have been confirmed and not all varieties will have resistance in all fields. As a result, individual field performance may vary from performance in the registration trials. Lengthening rotation to improve blackleg control may be needed in fields where newer blackleg pathotypes have been confirmed, or where fall field scouting shows higher than expected levels of blackleg, or where there is a history of tight rotation canola.

Clubroot Rating

The clubroot rating identifies varieties with resistance that greatly reduced root galls in Alberta field nurseries relative to susceptible varieties. Clubroot-resistant varieties should be grown on fields infested by this disease, but not more frequently than once every four years to delay resistance breakdown.

Early Maturing Canola

Canola growers in short season zones, or in areas with adverse spring conditions that greatly delay seeding have several options of varieties with shorter maturity. There are several varieties that were tested in special early napus trials, where maturity targets were about one week earlier than normal Argentine (B. napus) canola. Three early napus varieties currently available are 43E01, 43H57 (Pioneer Hi-Bred) and 9350 (Viterro); all are early Roundup Ready hybrids with similar to slightly higher yield than normal open-pollinated canola varieties, and about 50 per cent higher yield than Polish types. Another option is to grow Polish types of canola, which mature approximately two weeks earlier than normal Argentine canola. Although seed sources of Polish canola have greatly diminished over the past decade, there are several varieties available: AC Sunbeam (Secan); Early One (Mastin Seeds). Polish types of canola only have tolerance to conventional herbicides, and are susceptible to blackleg and clubroot.

Canola Quality Juncea

Canola quality Brassica juncea is a relatively new class that is slightly better adapted to areas with periods of hot, dry conditions. Juncea canola has very good blackleg resistance, and similar shattering resistance as Polish canola. Production is through contract system only. Viterro has several juncea canola varieties available: XCEED brands VT Oasis CL and 8571. XCEED varieties are Clearfield tolerant.

De-registered Canola Varieties

De-registered varieties can be detected at very low levels and will result in rejected export shipments and increased monitoring of Canadian canola. If you have canola seed of these de-registered varieties, please contact your grain company before you deliver.

- Bromoxynil tolerant: 295BX, Cartier BX, Zodiac BX, Renegade BX
- Roundup Ready: Hysyn 101RR
- Liberty tolerant: Exceed, 2631 LL, Swallow, SW Legion LL, SW Flare LL, LBD 2393 LL, Innovator, Independence, HCN 14, Phoenix, Liberty Link hybrids 3850, 2153, 3640, 3880, 2163, 2273



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CANOLA PERFORMANCE DATA

ARGENTINE CANOLA (*Brassica napus*)

WCC/RRC Registration Data

Variety	Type	Yield (% of checks)	Years Tested	Maturity (+/- days)	Height (+/-cm)	Blackleg Resistance	Clubroot Resistance	Distributor
Checks								
46A65 and Q2	OP	100		0	0			
Clearfield								
1651 H	H	120	2005-06	0	6	R		Canterra Seeds
45H73	H	122	2004-05	-2	2	R		Pioneer Hi-Bred
45H74	H	126	2008-09	-1	1	R		Pioneer Hi-Bred
45P70	H	119	2004-05	-1	5	R		Viterra
5525 CL	H	126	2007-08	1	11	R		BrettYoung
5535 CL	H	127	2008-09	-2	4	R		BrettYoung
71-40 CL	H	117	2006-07	0	7	R		Dekalb
NX4-205 CL *	OP	108	2008-09	0	7	R		Dow AgroSciences
Liberty Link								
5020	H	125	2001-02	0	2	R		Bayer CropScience
5030	H	131	2001-02	0	20	R		Bayer CropScience
5440	H	135	2004-05	-0	7	R		Bayer CropScience
5770	H	135	2007-08	3	8	R		Bayer CropScience
8440	H	132	2004-05	-1	-0	R		Bayer CropScience
1141 *	H	120	2005-06	-2	3	MR		Bayer CropScience
L130	H	136	2008-09	-0	4	R		Bayer CropScience
L150	H	143	2008-09	1	9	R		Bayer CropScience
3303 LL	Syn	115	2004-05	-1	-2	MR		BrettYoung
1145 *	H	133	2007-08	1	9	R		Cargill
9590	H	130	2003-04	-0	4	R		Viterra
Roundup Ready								
4414 RR	H	113	2004-05	0	3	R		BrettYoung
4424 RR	H	112	2006-07	1	11	MR		BrettYoung
4434 RR	H	111	2006-07	0	4	MR		BrettYoung
6020 RR	H	119	2007-08	1	0	MR		BrettYoung
6040 RR	H	121	2007-08	1	9	R		BrettYoung
6060 RR	H	134	2008-09	2	10	R		BrettYoung
6130 RR	Syn	118	2007-08	-1	-0	R		BrettYoung
997 RR	OP	105	2004-05	-1	-3	R		BrettYoung
1818	OP	106	2002-03	1	-8	R		Canterra Seeds
1841	H	114	2000-01	2	6	R		Canterra Seeds
1896	H	106	2002-03	-1	2	R		Canterra Seeds
1918	OP	115	2007-08	0	1	MR		Canterra Seeds
1950	H	123	2007-08	0	5	MR		Canterra Seeds
1956	Syn	119	2007-08	0	4	R		Canterra Seeds
1970	H	128	2008-09	2	7	R		Canterra Seeds
1852H	H	108	2004-05	-1	3	R		Canterra Seeds
1855H	H	110	2004-05	-1	0	R		Canterra Seeds
1960 **	H	121	2009	2		R	R	Canterra Seeds
v1037 *	H	114	2005-06	-1	8	R		Cargill - Victory Hybrid Canola
v1040 *	H	123	2008-09	1	4	R		Cargill - Victory Hybrid Canola
v2035 *	H	118	2008-09	-1	2	R		Cargill - Victory Hybrid Canola
32-75	OP	107	2002-03	-3	-6	R		Dekalb
34-65	OP	104	2003-04	1	5	R		Dekalb

OTHER CANOLA IS YELLOW...
OURS IS GOLD

6060 RR
6040 RR

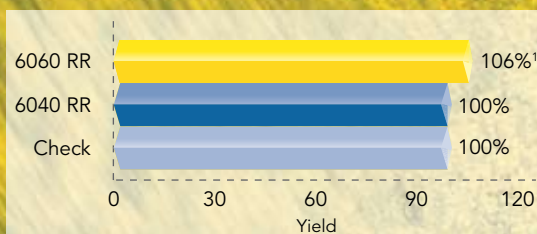
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¹Check is an average of 45H28 and 7265 over 18 replicated field scale grower trials (2010).

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2008 World Championship Silver Medalist

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71-45 RR	H	125	2003-04	-1	3	MR	Dekalb
72-35 RR	H	116	2005-06	-3	-6	MR	Dekalb
72-55 RR	H	121	2006-07	-1	-4	MR	Dekalb
72-65 RR	H	117	2007-08	1	0	R	Dekalb
73-35 RR	H	122	2008-09	-2	-6	R	Dekalb
73-45 RR	H	126	2008-09	-3	-5	R	Dekalb
73-55 RR	H	129	2008-09	-1	-2	R	Dekalb
73-65 RR	H	126	2008-09	-1	1	R	Dekalb
73-67 RR **	H	113	2009	-1		R R	Dekalb
73-77 RR **	H	114	2009	-0		R R	Dekalb
NX4-105 RR *	OP	109	2007-08	2	3	R	Dow AgroSciences
NX4-106 RR *	OP	106	2008-09	1	6	R	Dow AgroSciences
D3150	H	117	2006-07	-1	10	MR	DuPont
D3151	H	118	2006-07	-1	6	MR	DuPont
D3152	H	126	2008-09	-2	4	R R	DuPont
83S01 RR	Syn	117	2005-06	-2	6	MR	FP Genetics
93H01 RR	H	118	2005-06	-0	7	MR	FP Genetics
45H26	H	119	2004-05	-1	0	R	Pioneer Hi-Bred
45H28	H	122	2006-07	-1	2	R	Pioneer Hi-Bred
45H29	H	131	2008-09	-1	10	R R	Pioneer Hi-Bred
45S51	H	115	2006-07	-0	-0	R	Pioneer Hi-Bred
45S52	H	119	2008-09	-1	5	MR	Pioneer Hi-Bred
Café	OP	104	2004-05	-5	-5	R	Secan
RUGBY	OP	106	2005-06	0	1	R	Secan
	H	121	2006-07	-1	3	R	Viterra
46P50	H	119	2004-05	1	3	R	Viterra
9557S	H	125	2008-09	-2	5	R	Viterra
9558C	H	124	2008-09	-1	9	R R	Viterra
VT 500	H	117	2008-09	-0	4	R	Viterra
VT Barrier	OP	111	2006-07	-1	1	R	Viterra
VT Remarkable	Syn	120	2007-08	1	9	R	Viterra

Type: H - hybrid; Syn - synthetic or composite hybrid; OP - open-pollinated * Indicates varieties with Specialty oil profiles ** Indicates varieties with three year interim registration as of 2010

CANOLA - ARGENTINE

1956

BI: N/A, Dist: Canterra Seeds

Canterra Seeds Ltd. / Winnipeg / (204) 988-9750

6130 RR

BI: N/A, Dist: N/A

McNaughton, Brian / Lethbridge / (403) 308-9914

72-35 RR

BI: N/A, Dist: N/A

Monsanto Canada Inc. / Winnipeg / (204) 958-1000

72-65 RR

BI: N/A, Dist: N/A

Monsanto Canada Inc. / Winnipeg / (204) 958-1000

73-45RR

BI: N/A, Dist: N/A

Monsanto Canada Inc. / Winnipeg / (204) 958-1000

73-55RR

BI: N/A, Dist: N/A

Monsanto Canada Inc. / Winnipeg / (204) 958-1000

73-65RR

BI: N/A, Dist: N/A

Monsanto Canada Inc. / Winnipeg / (204) 958-1000

73-67RR

BI: N/A, Dist: N/A

Monsanto Canada Inc. / Winnipeg / (204) 985-1000

73-77RR

BI: N/A, Dist: N/A

Monsanto Canada Inc. / Winnipeg / (204) 958-1000

CAFE

BI: SW Seed Ltd., Dist: SeCan Members

Hadland, Edward & Lori / Balldonnel / (250) 789-3646

NX4-105 RR

BI: N/A, Dist:

Dow AgroSciences Canada / Calgary / (403) 735-8838

PPS01-140

BI: N/A, Dist: N/A

Bayer Cropscience Inc. / Kamloops / (250) 377-4157

RUGBY

BI: Lembke, Dist: SeCan Members

Hadland, Edward & Lori / Balldonnel / (250) 789-3646

Warkentin, Harold K. & Errol / Tofteld / (780) 662-2617

SW WIZZARD

BI: Viterra, Dist: N/A

Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500

VT BARRIER

BI: Viterra, Dist: Viterra

Viterra / Regina / (306) 569-5027

VT DESIRABLE

BI: Viterra, Dist: Viterra

Viterra / Regina / (306) 569-5027

VT REMARKABLE

BI: Viterra, Dist: Viterra

Viterra / Regina / (306) 569-5027

VT500

BI: Viterra, Dist: Viterra

Viterra / Regina / (306) 569-5027

CANOLA - POLISH

AC SUNBEAM

BI: AAFC, Dist: SeCan Members

Foster, Norman R. / Beaverlodge / (780) 354-2107

Early One

BI: N/A, Dist: N/A

Mastin, Robert B. / Sundre / (403) 556-2609

Mueller, Darcy / Three Hills / (403) 823-9788

Lyster, Norm / Stettler / (403) 742-4456

Field-scale trials

Best predictor of canola performance

Field scale testing of canola hybrids is a trial method that has been developed to produce data that is a more accurate predictor of canola hybrid performance.

Monsanto's **FACT™ (Field Analysis Comparison Trials)** program is conducted and managed by leading growers across the country, exposing seed to real life conditions including local weather, soil types, production systems and equipment.

Participants in the FACT™ program use appropriate herbicide systems and hybrids are swathed at correct maturities. The results come directly from growers and all data is published within a few days of harvest.

FACT™ ADVANCEMENT

- Field-scale trials one seeder width x 1000 feet
- DEKALB® harvested 43 sites in western Canada in 2010

FACT™ FARM TEST

- Farm-scale fields 20 to 40 acres
- DEKALB® had 302 comparisons in western Canada in 2010

Small Plot Trials



Field Scale Trials



Summary of Prairie 2010 FACT™ data - 72-65 RR & 73-45 RR vs Competitors

Check Products		Other Products		Performance			Yield BU/Ac		
Product	Trait(s)	Product	Trait(s)	# of Comps	Years #	Win %	Check	Other	Adv.
72-65 RR	GENRR	45H29	GENRR	57	1	61.4	47.7	47.5	0.2
72-65 RR	GENRR	5440	LL	24	1	45.8	45.8	46.4	-0.6
72-65 RR	GENRR	5770	LL	20	1	65.0	44.2	43.5	0.7
73-45 RR	GENRR	45H28	GENRR	10	1	90.0	48.7	46.7	2.0
73-45 RR	GENRR	45H29	GENRR	32	1	68.8	48.4	46.8	1.6
73-45 RR	GENRR	5440	LL	27	1	40.7	48.2	48.1	0.1
73-45 RR	GENRR	5770	LL	27	1	63.0	48.1	47.8	0.3

*Results as of November 2, 2010

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A Big Thanks To The Alberta Growers Who Helped Make Our 2010 FACT™ Program A Success:

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Keith Guay, Athabasca	Gary Wierenga, Neerlandia
Brian Penno, Barrhead	Don Plantinga, Neerlandia
Jason Schultz, Bashaw	Jonathan Chumulka, Nisku
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Ron Rockey, Calgary	Dave Hofer, Raymond
Weyga Farms, Camrose	Alfred Heilemann, Rimbe
Nico Rookmaker, Camrose	Craig Gabrielson, Rivercourse
Hillcrest Acres, Camrose	Derrick Dechief, Rycroft
Kevin Auch, Carmangay	Kevin Cliffe, Rycroft
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Kelly Friesen, Fort Vermillion	Leonard Loyek, Thorsby
Wendell Whittleton, Grimshaw	Don Boles, Three Hills
Rick Kemp, Innisfail	Torrington trial
Kelly Thompson, Innisfail	Darryl And Wayne Tuck, Vegreville
Scott Little, Innisfail	Viking Colony, Viking
Dean Moore, Innisfail	Darcy Zadunayski, Vimy
Chris And Harold Solick, Lacombe	Andre Huot, Vimy
Derek Sanford, Lavoy	Brian Markert, Vulcan
Darcy Sarafinchan, Lavoy	Glen Tharle, Vulcan
Thad Bentley, Leduc	Walter Entz, Warner
Alan Halwa, Leduc	Larry Arndt, Westlock
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Lanny Soroka, Manning	Jerry Repka, Willingdon
Brian Tischler, Mannville	
Todd Hames, Marwayne	
Gary Van Brabant, Morinville	



FLAX

Variety	Station Yrs of Testing	All Sites	Low <20 bu/ac	Medium 20-30 bu/ac	High 35-50 bu/ac	Very High >50 bu/ac	Rel. Maturity	Seed Size>	Ht.	Lodge**
Yield as % of CDC Bethune										cm
CDC Bethune bu/ac		35	14	28	42	60				
CDC Bethune ☼	(92)	100	100	100	100	100	L	M	57	VG
CDC Arras †	(27)	94-	97	95	97	87-	L	L	61	F
CDC Sorrel ☼	(32)	104	112	107	98	99	L	L	61	G
Flanders	(43)	100	108	100	98	97	L	S	57	G
Hanley ☼	(35)	97	98	101	94	97	L	M	52	VG
Macbeth †☼	(18)	91	XX	XX	XX	XX	L	M	52	G
NorLin †	(92)	95-	107	93-	93-	90-	M	M	57	G
Prairie Blue ☼	(13)	95	XX	99	XX	XX	L	S	53	VG
Prairie Grande ☼	(36)	98	99	100	95	XX	M	M	52	VG
Prairie Thunder ☼	(28)	99	105	93	96	XX	M	M	52	VG
Taurus ☼	(27)	98-	108	95	XX	XX	L	M	53	VG

Remarks: Yield is described as Overall Yield (1) and by Yield Test Category (2). 1) Province wide yields compared to CDC Bethune with similar stations years of testing. 2) Yield by Test Category is described as the % of CDC Bethune in bu/ac categories under low, medium, high and very high conditions. Yield followed by + is significantly higher than CDC Bethune, yield followed by - is significantly lower than CDC Bethune and yield without + or - is not significantly different than CDC Bethune. Maturities rated as VE, E, M, L and VL. Long term average days to maturity for CDC Bethune is 111 days rated as L (late maturing). No new data in 2010.

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Bruce Mathieu, Plant Manager
(403) 739-3766

FLAX

CDC BETHUNE

BI: CDC, Dist: SeCan Members

Harbin, Clifford T. & Bruce C. / Rivercourse / (780) 745-2268

CDC SORREL

BI: CDC, Dist: SeCan Members

Benci, Dennis / Carmangay / (403) 643-2294

Huvenaars, John & Lisa / Hays / (403) 725-2126

Kiffiak, Edwin H. & Nathan J. / Foremost / (403) 867-2338

King, Harold F. / Three Hills / (403) 443-7330

Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322

Stamp, Richard & Marian & G. / Enchant / (403) 739-2233

Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434

HANLEY

BI: AAFC (Morden), Dist: SeCan Members

Klassen, Ken / Rosemary / (403) 378-4408

Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500

Mercer, Lloyd A. & C. & Ryan / Lethbridge / (403) 327-9736

Sich, Louis John & Ivan / Trochu / (403) 442-2112

Stamp, Richard & Marian & G. / Enchant / (403) 739-2233

Weigum, Garry / Three Hills / (403) 443-2476

NULIN 50

BI: N/A, Dist: Viterra

Mercer, Lloyd A. & C. & Ryan / Lethbridge / (403) 327-9736

Viterra / Regina / (306) 569-5027

PRAIRIE GRANDE

BI: AAFC (Lacombe), Dist: SeCan Members

Kopjar, Gerald M. / Rowley / (403) 368-2409

Sim, Darwin & Derek / Ponoka / (780) 372-2111

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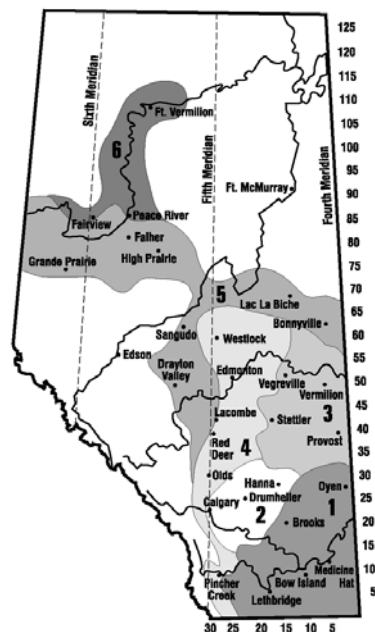
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www.uap.ca

2010 Regional Silage Variety Trials

THE grain and livestock industries have been well served through the advent of the Regional Variety Testing program in Alberta and the subsequent publishing of results in seed.ab.ca. However, one key element was missing. As cattle producers grow ever increasing amounts of annual crops for feed (silage, green feed and swath grazing), measuring those that produce the highest forage yield becomes increasingly important. Silage is an integral forage source in feedlots across the province and has become more prevalent in cow herds as well. With many producers trying to lower production costs, swath grazing of cow herds has increased dramatically in the last few years. It could also be argued that there is more grain forage than cereal grain fed to take a market animal from conception to plate. With these facts in mind, the Regional Silage Variety Trial concept was born.



Participating Organizations

Under the umbrella of the Agricultural Research and Extension Council of Alberta, six applied research groups initiated the project.

- Agricultural Research and Extension Council of Alberta, Sherwood Park, AB, (780) 416-6046
- Battle River Research Group, Forestburg, AB, (780) 582-7308
- Chinook Applied Research Association, Oyen, AB, (403) 664-3777
- Gateway Research Organization, Westlock, AB, (780) 349-4546
- Lakeland Agricultural Research Association, Bonnyville, AB, (780) 826-7260
- Smoky Applied Research and Demonstration Association, Falher, AB, (780) 837-2900
- West Central Forage Association, Evansburg, AB, (780) 727-4447

Major Sponsors

- Alberta Beef Producers
- Agricultural Opportunity Fund
- A and L Canada Laboratories
- Association of Alberta Co-op Seed Cleaning Plants
- Alberta Seed Growers' Association

Trial Information

This is only the second year of the trials and concrete conclusions shouldn't be drawn, however, many of the groups involved have been growing silage trials for several years, the involved groups would willingly share this information with anyone who is interested.

The barley, oat, and triticale silage trials are self explanatory, however we thought the late seeded and pulse mixture trials required a little more explanation. The late seeded trial was born of the increasing number of companies promoting, and producers growing, C4 crops for forage. Millet and sorghum fall into this category. Several of the groups have grown sorghum in past years and yields had been very disappointing, therefore it was left out of this trial. Millet has shown more promise and there seems to be more producer interest in growing it. Both these crops need to be sown into warm soil (approximately mid-June) and thus the trial name. Cereals were seeded at the same time to measure them against the millet.

The pulse mixture trial looked at decreasing nitrogen costs, and/or increasing nutritional value of silage. The pulse mix plots were seeded with 50 pounds of 11-52-0-0 while the straight cereal comparison plots were fertilized with 50 per cent of the recommended cereal rates. Peas were seeded at 75 per cent of their recommended seeding rate and cereals at 50 per cent when in mixtures. Monocrop cereals were seeded at 100 per cent the recommended seeding rate.

Site Information

There were 11 sites across the province. Sites were located near Castor, Concert, Evansburg, Ft. Kent, , Lac La Biche, St. Paul, Stanmore, Stettler, Stony Plain, Tawatinaw and Valleyview. Several sites were lost to flooding and weather pressure in the 2010 growing season, the data was not reported. Maturity, plant height and lodging were not measured in the trials as it was felt that most have already gone through the Cereal RVT program, and have been extensively reported on.

Nutritional Analysis

Nutrition was assessed using wet chemistry analysis, and the samples are also being tested by the Field Crop Development Centre in Lacombe (by Mary Lou Swift) using near infra-red technology to strengthen the NIR database for forages.

Full nutritional analysis was done on each sample, however, we have only reported on six nutritional categories; crude protein (CP), total digestible nutrients (TDN) which is an estimation of energy, calcium (Ca), phosphorus (P), potassium (K) and magnesium (Mg).



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BARLEY

Yield Data			Yield by Area (see map)				Nutritional Data					
Variety	Row Type	Awn Type	1	3	4	5	CP	TDN	Ca	P	K	Mg
			% of Vivar				% of Vivar					
AC Lacombe	6	S	121	94	122	89	103	99	117	105	104	102
AC Ranger	6	S	133	108	91	91	106	100	99	111	105	93
CDC Austenson	2	R	141	116	119	107	100	99	78	99	99	77
Chigwell	6	S	123	101	95	94	104	98	92	101	104	97
Cowboy	2	R	140	111	100	95	95	101	94	101	98	87
Ponoka	2	R	151	117	106	106	103	99	99	94	94	86
Seebe	2	R	129	112	118	108	100	98	86	101	91	80
Sundre	6	S	128	96	118	87	101	100	97	102	103	94
Trochu	6	S	124	92	105	83	101	101	97	98	98	96
Vivar	6	R	100	100	100	100	100	100	100	100	100	100
Xena	2	R	118	100	119	93	100	100	78	110	95	80

OATS

Yield Data		Yield by Area (see map)				Nutritional Data					
Variety	1	3	4	5	CP	TDN	Ca	P	K	Mg	
		% of Murphy				% of Murphy					
Baler	129	107	92	95	96	105	100	101	96	90	
Everleaf	97	101	91	71	111	101	109	100	113	94	
Foothills	97	114	91	96	95	102	108	98	104	94	
Jordan	88	102	109	90	105	104	103	103	107	99	
Morgan	101	99	99	86	95	103	106	109	97	88	
Murphy	100	100	100	100	100	100	100	100	100	100	
Mustang	102	97	102	92	104	101	106	99	98	96	
Waldern	95	102	100	98	93	102	111	97	99	93	

TRITICALE

Yield Data	Yield by Area (see map)				Nutritional Data					
Variety	1	3	4	5	CP	TDN	Ca	P	K	Mg
% of Pronghorn					% of Pronghorn					
AC Ultima	107	102	97	96	93	102	96	104	89	107
Bunker	103	93	95	94	96	97	115	95	93	100
Companion	101	83		103	94	95	123	92	95	101
Pronghorn	100	100	100	100	100	100	100	100	100	100
Tyndal	99	98	93	87	100	98	107	109	99	100

LATE SEEDED

Yield Data		Yield by Area (see map)				Nutritional Data					
Variety		1	3	4	5	CP	TDN	Ca	P	K	Mg
		% of Vivar				% of Vivar					
Crown Millet	51	62	79	69	105	97	93	103	137	178	
Golden German Millet	52	60	51	57	104	93	118	93	138	146	
Millet King Red Proso	52	55	53	75	100	94	84	96	144	149	
Murphy	158	118	134	101	82	88	93	91	119	93	
Pronghorn	126	120	151	115	88	94	79	121	104	85	
Siberian Millet	32	70	51	57	104	95	94	107	148	177	
Vivar	100	100	100	100	100	100	100	100	100	100	

PULSE MIXTURES


Yield Data	Yield by Area (see map)				Nutritional Data					
Variety	1	3	4	5	CP	TDN	Ca	P	K	Mg
	% of Vivar						% of Vivar			
Vivar		100	100	100	100	100	100	100	100	100
Murphy		136	118	104	88	88	75	91	122	89
Pronghorn		111	124	108	81	94	64	103	100	71
40-10/Vivar		98	65	92	131	100	171	109	95	127
40-10/Murphy		112	78	106	115	93	172	109	114	122
40-10/Pronghorn		86	103	92	123	96	144	119	114	116
Cooper/Vivar		87	91	83	115	97	135	102	101	110
Cooper/Murphy		147	96	94	103	93	114	110	121	97
Cooper/Pronghorn		90	112	91	88	95	111	97	96	90



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Forage references:

How to Purchase High Quality Forage Seed – FS120 / 45-1
 Establishing Perennial Hay and Pasture Crops – FS120 / 22-2
 These publications can be obtained from the Alberta Agriculture Publications Office. Call the toll-free line at 1-800-292-5697.

Other forage species and new varieties not listed in this publication are sometimes seeded by producers in Alberta. These species and varieties are not included by the Alberta Forage Variety Committee due to a lack of yield data.

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DUE to the program reviews in Alberta Agriculture and Rural Development, the variety data for the hay and pasture crops has not been generated this year. As such this means that data is not available for print in seed.ab.ca.



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BI: Saskatoon Research Station, Dist: SeCan Members
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Schmitt, Cameron John / Milk River / (403) 647-2157

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AC SALTLANDER

BI: AAFC (Swift Current), Dist: N/A
Miller, Kenneth F. / Milk River / (403) 647-2127

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BI: N/A, Dist: BrettYoung
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Mueller, Darcy / Three Hills / (403) 820-4115

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BI: U of S (Saskatoon), Dist: Public
Whitney, David / Fairview / (780) 835-4897

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Limoges, Daniel / Girouxville / (780) 833-1287
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STAFF of the Pulse Program of Alberta Agriculture's Crop Diversification Centre North did the compilation and co-ordination of the pea, lentil, chickpea and fababea tests. Staff of Agriculture and Agri-Food Canada, Lethbridge, conducted the dry bean trials. Funding was provided by seed companies (field pea entries only), the Alberta Pulse Growers Commission, Alberta Agriculture and Rural Development, the Alberta Seed Growers' Association and the Association of Alberta Co-op Seed Cleaning Plants Ltd.

Data, information and product contributed by the following:

> Applied Research Associations > Agriculture and Agri-Food Canada > Alberta Agriculture and Food > B.C. Grain Producers Association > Three Links AgResearch Inc. > EMD Crop Biosciences – field pea inoculant

Plant Breeders' Rights

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2010 Data

In 2010 there were 19 sites grown of a combined green and yellow pea trials. Two sites from British Columbia were used as part of region 4 and were grown as separate green and yellow trials. Fourteen sites of pea trials were used in the final report for the

Regional Variety Trials. Only sites with coefficient of variances (CV's) less than 15 per cent were used for field peas and less than 20 per cent for other pulses were included in the final report of pulse crop summaries.

Fully Tested Varieties

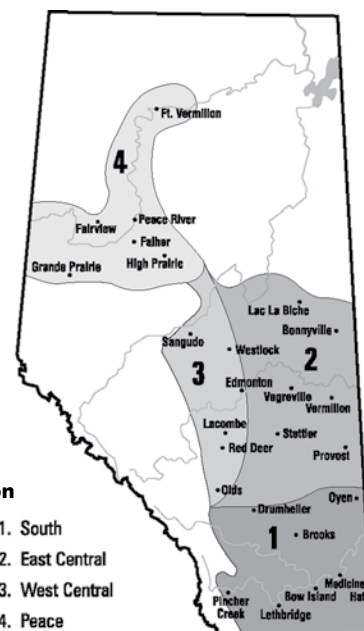
Fully tested varieties were not tested in 2010. Direct comparison between field peas fully tested and the 2000-2010 data cannot be made.

First-year Entries

Please use caution interpreting relative yield percentage when overall station years are below 25 sites for green and yellow peas.

Region

- 1. South
- 2. East Central
- 3. West Central
- 4. Peace





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DRY BEANS – NARROW ROW

Variety	Type	Station Years 1997-09 ^	Yield as % of Check	Days to Bloom*	Days to Maturity (+/-)	Seed Weight (g/1000)	Plant Height (cm)	Lodge (1-5) 1 = erect	Growth Habit +
AC Black Diamond (check)	black (shiny)	14	100	56	0	253	37	2.4	II
AC Black Violet	black (matte)	7	93	59	5	166	40	2.3	II
AC Black Diamond - maturity = 100 days from seeding, yield 2776 kg/ha									
AC Polaris (check)	great northern	15	100	56	0	305	40	3.5	II
AC Alert	great northern	12	96	56	1	333	48	2.8	II
AC Resolute	great northern	11	83	54	-3	334	40	2.5	II
AC Polaris - maturity = 101 days from seeding, yield 2970 kg/ha									
AC Island (check)	pinto	4	100	60	0	334	44	3.0	II
CDC WM-1 (CDC 2005s-1) (A)	pinto	1	75	59	-11	347	35	2.8	I
CDC WM-2 (2793CBB) (A)	pinto	1	74	60	-6	350	50	2.8	II
Winchester (A)	pinto	1	90	58	-5	336	55	3.0	II
AC Island - maturity = 93 days from seeding, 2636 yield kg/ha									
AC Redbond (check)	small red	15	100	51	0	301	38	2.4	II
AC Redbond - maturity = 98 days from seeding, yield 2573 kg/ha									
Viva (check)	pink	14	100	52	0	248	32	3.5	III
Viva - maturity = 99 days from seeding, 2260 yield kg/ha									
Arikara Yellow (check)	yellow	12	100	50	0	388	35	2.0	I
Arikara Yellow - maturity = 96 days from seeding, 2430 yield kg/ha									

Remarks: ^ Trials failed in 2010, so the data presented is the same as that from 2009 * Days from seeding. (A) first year entry in 2009 + Growth habit I = determinate bush, II = indeterminate bush, III = indeterminate prostrate.

DRY BEANS – WIDE ROW

Variety	Type	Station Years 1997-10	Yield as % of Check	Days to Bloom*	Days to Maturity (+/-)	Seed Weight (g/1000)	Plant Height (cm)	Lodge (1-5) 1 = erect	Growth Habit +
AC Black Diamond (check)	black (shiny)	34	100	57	0	263	38	2.1	II
AC Black Violet	black (matte)	26	83	61	4	175	41	2.0	II
AC Black Diamond - maturity = 104 days from seeding, yield 2994 kg/ha									
AC Polaris (check)	great northern	34	100	56	0	313	41	3.5	II
AC Resolute	great northern	17	87	53	-4	340	41	2.3	II
AC Polaris - maturity = 105 days from seeding, yield 3275 kg/ha									
Viva (check)	pink	37	100	55	0	255	36	3.0	III
Viva - maturity = 104 days from seeding, yield 3087 kg/ha									
AC Island	pinto	8	100	57	0	362	38	2.8	II
CDC WM-1	pinto	3	64	60	-2	332	36	2.1	I
CDC WM-2	pinto	3	78	59	1	362	45	1.8	II
Othello	pinto	8	90	58	0	353	36	3.5	III
Pecos	pinto	3	87	54	3	314	48	2.5	II
Winchester	pinto	8	88	55	-2	339	38	2.3	II
AC Island - maturity = 103 days from seeding, yield 3507 kg/ha									
AC Redbond (check)	small red	34	100	53	0	318	41	1.3	II
Viva - maturity = 105 days from seeding, 3272 yield kg/ha									
Myasi (A) (check)	yellow	1	100	67	0	377	23	1.0	I
CDC 2253-4 (A)	yellow	1	143	66	-7	441	28	1.0	I
Myasi - maturity = 114 days from seeding, yield 1477 kg/ha									

Remarks: * Days from seeding. (A) first year entry in 2009. + Growth habit I = determinate bush, II = indeterminate bush, III = indeterminate prostrate.

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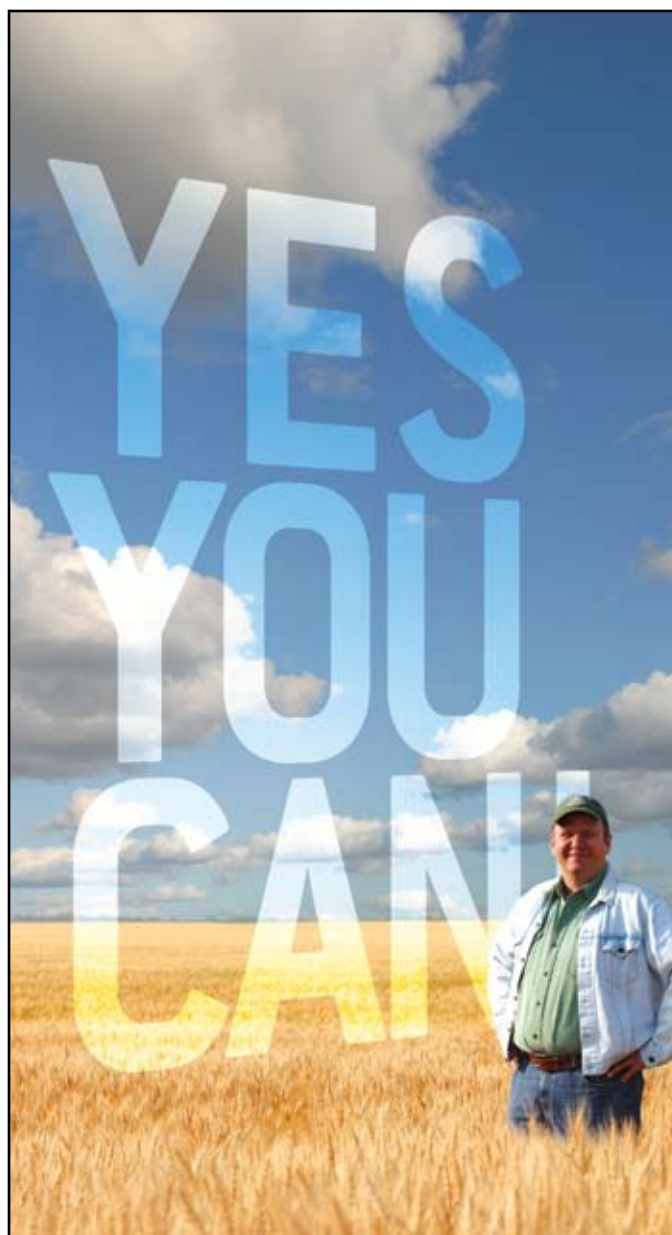
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CHICKPEAS – DESI

Variety	Region (see map)						Total Station Years	Yield as % of Myles	Seed Weight (g/1000)	Relative Maturity Rating >	Height (cm)	Resistance to: Ascochyta
	1		2		4							
	Sty*	%	Sty	%	Sty	%						
Relative yield % of Myles 2003 - 2009 ^												
Myles	12	100	4	100	2	100	18	100	217	M	40	F
CDC Anna	11	114	3	113	2	75	16	109	197	M	52	F
CDC Cabri	12	114	4	95	2	88	18	107	327	E	42	F
CDC Desiray	11	106	3	93	2	109	16	104	202	M	48	F
CDC Nika	11	114	3	103	2	72	16	107	318	E	53	F
CDC Vanguard	4	118	1	108	-	-	5	116	228	M	46	F
CDC Corinne	2	135	-	-	-	-	2	135	265	M	46	F
Myles - Yield in kg/ha	2841		1692		1427		2428					

CHICKPEAS – KABULI

Variety	Region (see map)						Total Station Years	Yield as % of Sanford	Seed Weight (g/1000)	Relative Maturity Rating >	Height (cm)	Resistance to: Ascochyta
	1		2		4							
	Sty*	%	Sty	%	Sty	%						
Relative yield % of Sanford 2003 - 2008												
Sanford	11	100	4	100	2	100	17	100	397	L	45	VP
Amit (R P)	11	164	4	148	2	163	17	161	267	L	42	F
CDC Luna	1	156	-	-	-	-	1	156	366	ML	-	P
CDC Chichi	7	126	2	120	-	-	9	125	362	M	52	P
CDC Chico	7	149	2	151	-	-	9	150	246	E	51	VP
CDC Diva	11	99	3	86	2	153	16	104	458	L	50	F
CDC Frontier	11	171	3	155	2	180	16	169	361	L	53	F
CDC Xena	11	106	3	100	2	123	16	107	455	L	50	VP
CDC Yuma	11	114	3	96	2	124	16	112	426	L	54	P
Sanford Yield in kg/ha	2503		1162		747		1981					

Remarks: ^ Trials failed in 2010 due to wet and late season, so the data presented is the same as that from 2008. *Stn - station years, - no data. ~VP - very poor, P - poor, F - fair. > Maturity E = early, M = medium, ML = medium - late L = late.

CHICKPEAS

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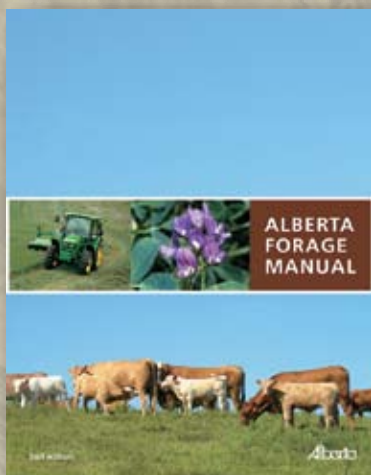


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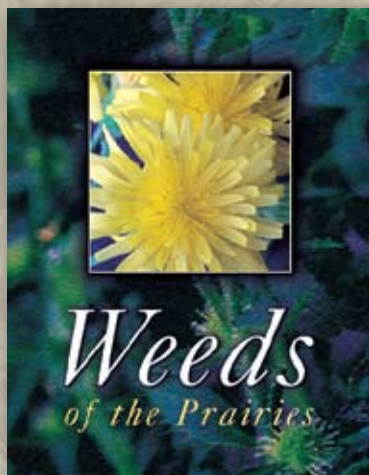
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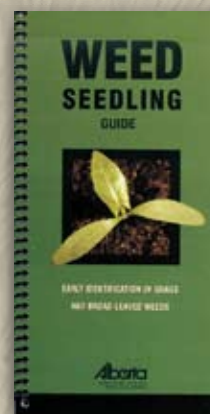
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FABABEANS

Relative yield % of Earlibird 2000-2008

Variety	Station Years	Yield as % of Earlibird	Relative Maturity >	Plant Height (cm)	Weight (g/1000)	Flower Colour**
Earlibird ☼	27	100	E	86	543	C
CDC Blitz (R)	37	98	M-L	96	463	C
CDC Fatima (R)	31	94	M	92	533	C
Snowbird ☼	24	105	E	93	526	W
Earlibird - Yield (kg/ha)	5462					

Remarks: Trials failed in 2010 due to wet and late season, so the data presented is the same as that from 2008. Varieties with more than 10 station years are fully tested. Varieties with (R) are registered with CFIA, (P) have Plant Breeder's Rights. ** W - white flowered, zero tannin, C - colored flower, tannin. Fully tested varieties not tested in 2008. > Maturity E = early, M = medium, ML = medium-late L = late.

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S F R C

F
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Fully Tested Varieties

Variety	Station Years	Yield as % of Earlibird	Relative Maturity >	Plant Height (cm)	Weight (g/1000)	Flower Colour**
Aladin (R)	Fully Tested	82	L	100	431	C
Ben (P)	Fully Tested	110	E	101	584	C
Cresta	Fully Tested	98	M	86	591	W
Hertz Freya	Fully Tested	80	L	111	398	C
Orion (R)	Fully Tested	84	M	77	347	C
Outlook	Fully Tested	92	L	100	373	C
Pegasus	Fully Tested	88	L	99	393	C
Scirocco	Fully Tested	104	ML	89	576	C

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LENTILS — EARLY

Relative yield % of CDC Redberry 2004-2010

Variety	Region (see map)								Total Station Years	Yield as % of CDC Redberry	Seed Weight (g/1000)	Height (cm)	Relative Maturity Rating >	Cotyledon Col.	Seed ct. colour ***	Market Class	Disease Resistance	
	1 Sty*	%	2 Sty	%	3 Sty	%	4 Sty	%									Ascochyta	Anthracnose
CDC Redberry	7	100	2	100	1	100	1	100	11	100	43	36	E	R	GR	SR	G	G
CDC Impala (A) (CL)	1	95	-	-	-	-	-	-	1	95	-	33	E	R	GR	ESR	G	P
CDC Imperial (R) (CL)	3	79	1	87	-	-	-	-	4	81	29	30	E	R	GR	ESR	G	G
CDC Redbow (A)	2	116	-	-	-	-	-	-	2	116	33	-	E	R	GR	ESR	-	-
CDC Robin (R)	7	90	2	92	1	65	1	71	11	86	28	33	E	R	GR/BR	ESR	G	G
CDC Rosebud (A)	2	106	-	-	-	-	-	-	2	106	30	-	E	R	T	ESR	-	-
CDC Rosetown	4	123	-	-	-	-	-	-	4	123	30	43	E	R	GR	ESR	-	-
CDC Invincible (A) (CL)	1	129	-	-	-	-	-	-	1	129	32	-	E	Y	G	SG	-	-
CDC Milestone (R)	7	115	2	89	1	58	1	90	11	104	37	32	E	Y	G	SG	G	VP
CDC Viceroy (R) +	5	112	1	120	1	94	1	100	8	109	32	34	E	Y	G	SG	G	G
Eston (R)	3	93	-	-	-	-	1	70	4	87	34	35	E	Y	G	SG	VP	VP
CDC Blaze (R) +	5	103	1	70	1	66	1	64	8	89	35	31	E	R	GR	SR	G	P
CDC Imax (A)	1	106	-	-	-	-	-	-	1	106	45	-	M	R	GR	SR	-	-
CDC Impact (R) (CL)	3	86	1	56	-	-	-	-	4	78	34	36	E	R	GR	SR	G	G
CDC Maxim (R) (A) (CL)	1	117	-	-	-	-	-	-	1	117	41	-	E	R	GR	SR	F	VP
CDC Redcoat (A)	2	103	-	-	-	-	-	-	2	103	41	-	E	R	GR	SR	-	-
CDC Rouleau (R)	3	103	-	-	-	-	1	117	4	106	37	37	M	R	GR	SR	G	G
Crimson (R) +	3	94	1	70	1	42	1	92	6	81	35	26	E	R	BR	SR	VP	VP
CDC Peridot (A)	1	116	-	-	-	-	-	-	1	116	37	-	E	Y	MRB	FG	-	-
Pardina (A)	1	106	-	-	-	-	-	-	1	106	40	-	-	Y	GR/DT	SB	VP	VP
CDC Redberry - Yield kg/ha	2214		1454		4034		1883		2211									

LENTILS — LATE

Relative yield % of CDC Plato 2003-2010

Variety	Region (see map)								Total Station Years	Yield as % of CDC Plato	Seed Weight (g/1000)	Height (cm)	Relative Maturity Rating >	Cotyledon Colour	Seed ct. colour ***	Market Class	Disease Resistance	
	1 Sty*	%	2 Sty	%	3 Sty	%	4 Sty	%									Ascochyta	Anthracnose
CDC Plato (R)	13	100	-	-	-	-	2	100	15	100	68	36	L	Y	G	LG	G	P
CDC Imigreen (A) (CL)	3	83	-	-	-	-	-	-	3	83	62	-	M	Y	G	MG	-	-
CDC Impress (R) (CL)	5	89	-	-	-	-	-	-	5	89	57	31	VL	Y	G	MG	G	VP
CDC Meteor (R) +	6	100	-	-	-	-	1	88	7	98	53	41	M	Y	G	MG	G	VP
CDC Richlea (R) +	6	104	-	-	-	-	-	-	6	104	53	37	M	Y	G	MG	VP	VP
CDC Vantage (R) +	6	97	-	-	-	-	2	100	8	98	58	33	M	Y	G	MG	G	VP
CDC Glamis (R) +	6	90	-	-	-	-	2	104	8	93	70	35	VL	Y	G	LG	G	VP
CDC Grandora (R) (A) +	3	81	-	-	-	-	-	-	3	81	68	44	L	Y	G	LG	G	VP
CDC Greenland (R)	7	80	-	-	-	-	-	-	7	80	69	38	M	Y	G	LG	G	P
CDC Impower (A) (CL)	3	90	-	-	-	-	-	-	3	90	71	-	ML	Y	G	LG	-	-
CDC Improve (R) (CL)	7	90	-	-	-	-	-	-	7	90	75	38	L	Y	G	LG	F	VP
CDC Sedley (R) +	6	96	-	-	-	-	1	103	7	97	76	30	M	Y	G	LG	F	VP
CDC Sovereign (R) +	8	83	-	-	-	-	2	102	10	87	72	40	L	Y	G	LG	G	P
Laird	12	84	-	-	-	-	2	101	14	86	74	38	VL	Y	G	LG	VP	VP
CDC KR-1 (A)	4	113	-	-	-	-	-	-	4	113	59	34	M	R	GR	LR	-	-
CDC QG-1 (A)	4	99	-	-	-	-	-	-	4	99	51	28	M	G	G	GC	-	-
CDC Plato - Yield kg/ha	1925		-		-		1573		1878									

Remarks: Varieties marked with (A) are first year entries in 2010. (R) - Registered with CFIA; (CL) - Clearfield variety; + not entered in 2010; Stn - station years. Maturity - E = early, M = medium, L = late, VL = very late. Cotyledon Colour - R = red, Y = yellow, G = green; Seed Coat Color/Pattern G = green, GR = grey, BR = brown FG=french green, T = tan, MRB = marbled, DT = dotted. Market class - SG = small green, MG = medium green, LG = large green, FG = french green, ESR = extra small red, SR = Small Red, LR = large red, GC = green cotyledon, SB = spanish brown. "-" no data Resistance - VP = very poor, P = poor, F = fair, G = good.



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FIELD PEAS – YELLOW

Variety	1- Irri.		1-Dryland		Region (see map)				Total Station Years	Yield as % of Cutlass	Relative Maturity Rating >	Vine Length (cm)	Seed Weight (g/1000)	Standability (1E-9F)**		
	Sty*	%	Sty	%	2 Sty	%	3 Sty	%							4 Sty+	%
Relative yield % of Cutlass 2003-2010										Average of all regions from 2003-2010						
Cutlass☺ (R)	1	100	21	100	34	100	24	100	47	100	127	100	E	68	230	3.9
Argus☺	-	-	2	97	5	112	2	103	5	98	14	103	M	76	228	4.1
Canstar ☺	-	-	10	95	20	104	14	103	21	101	65	102	E	75	247	3.3
CDC Hornet ☺ (CDC 1749-8)	-	-	5	96	8	110	5	111	10	105	28	106	M	80	223	3.5
CDC 1897-14 (R) (A)	-	-	2	111	5	113	2	124	5	103	14	111	M	76	201	4.7
CDC Meadow	-	-	8	104	15	114	10	104	21	107	54	108	E	77	217	3.1
CDC Prosper	-	-	6	93	12	97	8	97	13	100	39	97	E	72	150	4
CDC Treasure	-	-	6	96	12	105	8	98	13	100	39	101	E	78	218	3.5
Hugo ☺ (A)	-	-	2	101	5	100	2	116	7	106	16	105	E	66	221	4.4
Stella ☺ (A) ^	-	-	2	89	5	98	2	98	5	82	14	91	L	84	222	4
Cutlass - Yield kg/ha	4003		3135		3485		5739		4362		4182					
FULLY TESTED VARIETIES																
Agassiz ☺ (R)***	-	-	6	100	11	102	9	102	13	105	Fully Tested	103	E	76	238	2.9
CDC Centennial (R)***	-	-	5	101	12	99	9	104	13	100	Fully Tested	101	E	61	259	4.8
DS-Admiral ☺ (R)***	1	91	13	97	18	108	13	98	24	104	Fully Tested	102	M	68	246	3.2
Eclipse ☺ (R)***	1	108	17	103	27	103	20	99	33	103	Fully Tested	102	M	64	255	3.0
Miser ☺ (R)***	-	-	6	96	11	108	6	99	9	96	Fully Tested	101	E	66	205	5.2
Noble ☺ (R)***	-	-	3	88	8	95	6	99	8	92	Fully Tested	94	M	74	237	2.9
Polstead ☺ (R)***	-	-	5	97	12	99	9	99	13	104	Fully Tested	101	E	62	262	3.7
Reward ☺ (R)***	-	-	5	86	12	106	9	102	13	101	Fully Tested	101	M	76	248	2.5
SW MIDAS ☺ (R)***	-	-	10	103	17	106	11	91	20	100	Fully Tested	100	E	66	213	3.1
THUNDERBIRD (R)***	-	-	6	89	11	96	9	99	13	99	Fully Tested	97	M	76	228	2.1
Cutlass - Yield kg/ha	4003		2997		3326		5791		4525		4197					
										Yield as % of Carrera						
Relative yield % of Carrera 2000-2005										Average of all regions from 2000-2005						
Carrera ☺ (R)	6	100	14	100	28	100	15	100	33	100	Fully Tested	100	E	52	257	4.6
CDC Bronco (R)***	1	93	11	91	16	100	8	94	15	117	Fully Tested	102	M	63	220	4.1
CDC Golden (R)***	1	109	11	101	14	105	8	102	15	109	Fully Tested	105	M	68	224	3.4
CDC Handel (R)***	2	116	8	95	17	94	7	87	14	102	Fully Tested	96	L	67	201	6.2
CDC Minuet (R)***	5	115	12	97	26	100	11	92	22	111	Fully Tested	102	M	64	192	4.9
CDC Mozart (R)***	2	110	8	108	17	100	7	97	14	105	Fully Tested	103	M	61	241	5.9
DS-Stalwarth (R)***	5	120	8	98	19	93	10	94	23	107	Fully Tested	101	M	69	231	3.4
Eiffel ☺ (R)	4	98	5	106	6	103	5	95	7	112	Fully Tested	103	M	77	268	4.4
Carrera - Yield kg/ha	4459		2593		2926		5098		3986		3677					

Remarks: ☉ indicates varieties with Plant Breeders Rights. Varieties marked with (A) are first year entries in 2010, (R) registered with CFIA. Fully tested varieties were not tested in 2010. ^ Stella is a silage type pea. *Stn - station years ** , standability - 1 = erect, 9 = flat, *** Powdery mildew resistant "-" no data Resistance - P = poor, F = fair, G = good, VG = very good Maturity - E = early, M = medium, L = late.



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	Resistance to:					
	Powdery Mildew	Myco. Blight	Fusarium Wilt	Seed Coat Breakage	Seed Coat Dimpling	Green Seed Coat
Cutlass (R)	VG	F	F	F	F	G
Argus	VG	F	F	F	F	G
Canstar	VG	P	G	G	G	G
CDC Homet (CDC 1749-8)	VG	F	F	P	F	G
CDC 1897-14 (R) (A)	VG	F	F	G	G	F
CDC Meadow	VG	F	F	G	G	G
CDC Prosper	VG	F	G	F	F	G
CDC Treasure	VG	F	F	G	G	F
Hugo (A)	VG	F	F	G	F	F
Stella (A) ^	VG	F	F	G	G	F

FULLY TESTED VARIETIES

Agassiz (R)***	VG	F	F	G	VG	G
CDC Centennial (R)***	VG	F	G	G	G	F
DS-Admiral (R)***	VG	P	F	F	G	F
Eclipse (R)***	VG	F	F	G	F	G
Miser (R)***	VG	F	F	G	G	G
Noble (R)***	VG	F	F	F	F	G
Polstead (R)***	VG	P	P	F	VG	F
Reward (R)***	VG	F	F	G	VG	F
SW MIDAS (R)***	VG	P	F	G	G	G
THUNDERBIRD (R)***	VG	F	F	G	VG	-
Carrera (R)	P	P	F	F	G	-
CDC Bronco (R)***	VG	F	F	G	G	G
CDC Golden (R)***	VG	F	F	G	G	G
CDC Handel (R)***	VG	F	P	G	G	F
CDC Minuet (R)***	VG	F	F	F	G	F
CDC Mozart (R)***	VG	F	F	G	G	F
DS-Stalworth (R)***	VG	P	P	G	G	-
Eiffel (R)	-	-	-	-	-	-



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FIELD PEAS – GREEN

Variety	Region (see map)										Total Station Years	Yield as % of Nitouche	Relative Maturity Rating>	Vine Length (cm)	Seed Weight (g/1000)	Standability (1E-9F)**
	1- Irri.		1-Dryland		2		3		4							
	Sty*	%	Sty	%	Sty	%	Sty	%	Sty	%						
Relative yield % of Cooper 2000-2010										Average of all regions from 2000-2010						
COOPER ☼***	-	-	13	100	29	100	19	100	33	100	94	100	L	71	276	3.1
CDC 1932-201 (A) ***	-	-	1	103	6	107	2	101	6	99	15	103	M	71	195	5.4
CDC Patrick ***	-	-	5	111	13	99	8	100	15	101	41	101	M	76	191	3.6
Mendel (A) ☼	-	-	1	91	6	97	2	86	10	90	19	92	M	74	207	3.8
Cooper - Yield kg/ha				3237		3846		5917		4525		4418				

FULLY TESTED VARIETIES

Relative yield % of Nitouche 2000-2009										Average of all regions from 2000-2009						
Nitouche	6	100	18	100	45	100	27	100	53	100	Fully Tested	100	M	69	267	3.4
Camry ☼***	-	-	8	97	18	95	11	110	22	100	Fully Tested	100	M	57	258	3.0
CDC Striker	1	71	8	90	19	95	8	95	21	95	Fully Tested	94	M	66	244	2.9
CDC Sage ***	-	-	5	80	8	86	8	97	13	91	Fully Tested	90	M	71	199	3.1
Stratus ☼***	3	97	9	96	24	103	13	100	28	96	Fully Tested	99	M	55	260	4.5
SW PARADE ☼***	5	90	3	96	15	103	5	91	11	102	Fully Tested	99	M	64	196	4.6
TAMORA ☼***	-	-	4	90	10	95	9	110	14	97	Fully Tested	99	M	70	268	3.0
Nitouche - Yield kg/ha	4586		2568		2955		5047		3914		3691					

Remarks: All green peas in this table are registered with CFIA, indicates varieties with Plant Breeders Rights, varieties marked with (A) are first year entries in 2010. Fully tested varieties were not tested in 2010.

*Stn - station years ** standability - 1 = erect, 9 = flat *** Powdery mildew resistant - " - " no data Resistance - P = poor, F = fair, G = good, VG = very good Maturity - E = early, M = medium, L = late.

Other Characteristics

	Resistance to:						
	Powdery Mildew	Myco. Blight	Fusarium Wilt	Bleaching	Seed Coat Breakage	Seed Coat Dimpling	
COOPER ☼***	VG	F	F	G	F	G	
CDC 1932-201 (A) ***	VG	F	G	G	G	G	
CDC Patrick ***	VG	F	G	G	G	G	
Mendel (A) ☼	VG	F	F	G	F	G	
Nitouche	P	P	P	G	F	F	
Camry ☼***	VG	F	F	F	F	G	
CDC Striker	P	F	G	G	G	F	
CDC Sage ***	VG	F	G	G	VG	G	
Stratus ☼***	VG	F	P	P	G	G	
SW PARADE ☼***	VG	P	G	F	G	G	
TAMORA ☼***	VG	F	P	F	F	G	

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Hate Wheat Midge? Hate Spraying?

Prairie wheat growers have found an answer with midge tolerant wheat.

FOR Randy Cay, a farmer and seed grower southeast of Kinistino, Saskatchewan, the decision to plant midge tolerant wheat offers piece of mind and agronomic benefits. Cay runs a third-generation 5,500 acre farm, primarily growing wheat, barley, canola and peas. After many years of dealing with high midge pressure, this spring he planted the midge tolerant wheat variety AC Goodeve VB on over 800 acres – nearly all of his wheat crop.

"We've been in a bad midge area over the years, so not having to worry about the challenges of determining proper thresholds and insecticide application timing this year was a definite advantage," says Cay, noting that from 2007 to 2009 he had to spray almost every wheat acre to control this damaging pest. In one field that wasn't sprayed a few years ago, Cay recalls losing one grade and about 10 bushels per acre to midge damage, even though the stand looked similar.

"This year we were very satisfied with the yield and quality – all grading No. 2," says Cay. "Plus, these new varieties offer great agronomic traits, and would be good varieties of wheat to grow even if they didn't have the midge tolerance built in."

Dave Cook, another Kinistino area farmer, is also greeting midge tolerant technology with enthusiasm. "After spending about \$50,000 on midge spray last year, we decided to grow midge tolerant wheat wall to wall this year," says Cook, who planted over 3,000 acres of AC Goodeve VB. "We're really pleased with the quality and yield of this variety. All our earlier seeded fields graded No. 1 with an average 14.2% protein." He also likes the agronomic benefits, particularly the shorter height and standability which makes straight combining a lot easier.

"The best benefit for me is that I didn't spray for midge – I didn't even look this year," he says. While many of Cook's neighbours were out spraying, he didn't really pay much attention to it. "I had confidence in the midge tolerant technology to do the job and it did."

While this new technology is very effective, it does require proper stewardship in order to keep it viable for future generations. "Maintaining the interspersed refuge system is an important part of preserving this technology. The stewardship agreement is a simple, effective way to do that," says Cay.

Farmers planting midge tolerant wheat are required to sign a Midge Tolerant Wheat Stewardship Agreement, which limits the use of farm-saved seed to one generation past Certified seed. This limitation is critical to ensure that the refuge remains at the desired level of 10% of the plant population, as the refuge in farm-saved seed may change substantially over multiple generations.

"If this is going to preserve the midge tolerant technology, then it's definitely worth it," says Cook.

Visit www.midgetolerantwheat.ca to learn more about these new varieties and how the interspersed refuge system works.

Editor's Note: This article has been brought to you by the Midge Tolerant Wheat Stewardship Team, a broad industry coalition representing plant breeders, government, seed growers, seed distributors and producer groups.

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Fingerprinting Barley

Work done by crop scientists at SCRI, Scotland's world-leading research institute, could see Alberta's barley acres increase in the next few years. The SCRI scientists have released details of how they are using DNA fingerprinting techniques normally associated with police investigations to improve the quality of barley used in whisky making. Fortunately, it makes the processing easier, so it benefits the producer as well. The scientists have developed the ability to DNA fingerprint different barley varieties. In addition, they have developed collections of different barley types that either have been—or will be—scored for key aspects of barley yield and quality. The technique enables researchers to identify specific DNA markers that can be utilised by plant breeders and processors in the identification of varieties for growing and processing. One of the markers does the valuable job in the very early stages of production of enhancing the purity of Scotch whisky. Barley breeders are using the markers developed by SCRI to improve the long term sustainability of the distilling industry.

Protecting Pollinators

The U.S. Department of Agriculture has released the *2010 Colony Collapse Disorder Progress Report* highlighting current research on this still mysterious disease affecting the world's honey bees. The report summarizes research by federal agencies, state departments of agriculture, universities and private organizations to find the cause of CCD and how to stop or mitigate its impact. CCD, a syndrome characterized by the sudden disappearance of all adult honey bees in a colony, was first recognized in 2006. Since then, surveys of beekeepers indicate that the industry is suffering losses of more than 30 per cent annually. Before the



appearance of CCD, losses averaged 15-20 per cent annually from a variety of factors such as varroa mites and other pests and pathogens. During the past three years, numerous causes for CCD have been proposed and investigated. Although the cause or causes of CCD are still unknown, research summarized in the report supports the hypothesis that CCD may be a syndrome caused by many different factors, that work individually or in combination and the sequence and combination may not even be the same in every case.

Reducing Greenhouse Gas Emissions

A new study commissioned by the Canola Council of Canada shows the lifecycle greenhouse gas emissions associated with canola-based biodiesel are 90 per cent lower than emissions related to production and consumption of fossil-based diesel. Canola Council vice-president Robert Hunter explains the study looks at the product's complete lifespan. In the case of canola-based biodiesel, this is from planting all the way to the tailpipe. He says the study results strengthen the Canola Council's push for increased renewable fuel standards. This research may also open new export markets. Both the United States and European Union have sustainability requirements associated with their renewable fuel standards.



Increasing Ag's Footprint

Biofuel derived from crops such as switchgrass certainly holds promise, although some critics maintain that such crops use up too much agricultural land—land that could otherwise be used for growing food crops. A genetic discovery announced recently, however, reportedly allows individual plants to produce more biomass. This means that biofuel crops could have higher yields, without increasing their agricultural footprint. The research was conducted at the Plant Biology Division of Oklahoma's Samuel Roberts Noble Foundation. There scientists discovered a gene that controls the production of lignin within the stems of *Arabidopsis* and *Medicago truncatula*. Lignin is a compound that adds strength to plant cell walls, which gives stems their rigidity. When the scientists removed the gene, there was a marked increase in the production of lignin and other biomass throughout the plants' stems. Further research with associates at the University of Georgia revealed that by removing the gene, production of cellulose and hemicellulose material in the stem was also increased. These carbohydrate-rich compounds, when converted to sugars, are used to create advanced biofuels like cellulosic-derived ethanol or butanol.



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