

Varieties of Grain Crops 2014

Crop Production Areas



The cropland of Saskatchewan has been divided into four areas based roughly on agro-climatic conditions. Crop yields can vary from area to area. In choosing a variety, producers will want to consider the yield data in combination with marketing and agronomic factors.

Area 1: Drought is a definite hazard and high winds are common. Sawfly outbreaks often occur in this area. Cereal rust may be a problem in the southeastern section.

Area 2: Drought and sawfly may be problems in the western and central sections of the area. Cereal rust may be a problem in the southern section.

Area 3: Sawfly can also be a problem. Drought is not as likely to be a problem in this area, particularly in the east. Cereal rust may occur in the eastern portion. The frost-free period can be fairly short in the northern section.

Area 4: Rainfall is usually adequate for crop production. However, early fall frosts and wet harvest conditions are frequent problems.

Note About Dividing Lines:

The dividing lines do not represent distinct changes over a short distance. The change from one area to another is gradual.

Table of Contents Cereal Crops Wheat4 Winter Wheat67 Triticale78 Feed and Food Barley1011 Oat Other Crops Buckwheat, Caraway, Coriander, Fenugreek, **Pulse Crops** Lentil14 Chickpea Soybean Dry Bean17 Oilseed Crops Reboot Your Flax Seed in 2014! Mustard Canola Sunflower

Symbols Used in 2014 Seed Guide:

- § Variety may not be described in 2015
- --- Insufficient test data to describe
- Plant Breeders' Rights at time of printing
- Applied for PBR protection at time of printing

Abbreviations used:

Relative maturity: VE = Very Early, E = Early, M = Medium,

L = Late, VL = Very Late

Resistance: VG = Very Good, G = Good, F = Fair, P = Poor,

VP = Very Poor, n/a = not applicable

Seed size: S = Small, M = Medium, L = Large

The information contained herein is provided by the Saskatchewan Advisory Council on Grain Crops. To reproduce this information in whole or in part, permission must be obtained from the council. Please contact Mitchell Japp, secretary, at 306-787-4664.

Testing Varieties in Saskatchewan

By Saskatchewan Ministry of Agriculture

Regional testing of crop varieties is conducted to provide producers with information on the agronomic performance of varieties under different agro-climatic conditions. Saskatchewan producers will continue to have the opportunity to evaluate the newest grain crop varieties and their suitability for production in different regions of the province.

Saskatchewan Ministry of Agriculture provides \$100,000 towards a testing program that is based on industry-government partnership. An entry fee system is used in which variety owners or companies with the distribution rights to a particular variety pay a portion of the cost of having the variety tested. The Saskatchewan Seed Growers' Association also provides \$5,000 to the program.

Technical and in-kind support is also provided by The Western Producer, publisher of the 2014 SaskSeed Guide.

A long-term database is developed providing comparisons to a commonly grown check variety. The data include information on yield, various agronomic factors, and certain market related traits.

The Saskatchewan Variety Performance Group (SVPG) administers the program. SVPG is composed of representatives from individual organizations with an interest in providing variety testing information.

SeCan Association administers the funds for SVPG. Crop coordinators manage the data and provide expertise for their respective crops.

The results of the testing are reviewed by the Saskatchewan Advisory Council on Grain Crops (SACGC), which also updates disease and other agronomic information, and approves the data prior to inclusion in this publication.

The Saskatchewan Ministry of Agriculture grant also provides some support to programs that test pulses, sunflower and canaryseed. The testing information from these crops is included in this publication.

Relative yield of varieties

Trials are conducted using uniform protocols and standard check varieties. Data are collected from as many sites as are available and statistically analyzed. Results in this publication are aggregated over a number of years and on an area basis.

Grain yield is a function of genetic and non-genetic factors. Variety trials are designed to measure the yield differences that are due to genetic causes. It is important to minimize variability due to non-genetic factors such as moisture, temperature, transpiration, weeds, diseases and other pests. Experimental design uses replication (repeated plantings of the varieties) and randomization (the position of the varieties within the test is assigned by chance) to estimate the precision with which the genetic factors can be measured.

Relative yield is the yield of one variety expressed as a percentage of the check variety. Yields obtained in these trials are not identical to those obtained in commercial production. However, the relative ranking of these varieties compared to the check variety, obtained over a number of years at several locations, would remain the same regardless of whether the grain yield was measured in small plots or large-scale fields. Relative yield is the best estimate of expected yield advantage in the areas indicated.

Testing Pulse Crops

In 2013 the Saskatchewan Pulse Growers and the pulse breeding program at the Crop Development Centre (CDC), University of Saskatchewan continued a 5-year agreement with a budget of \$160,000 per year to conduct the pulse crop regional variety trials in Saskatchewan. The CDC collaborates with researchers at several locations. including Agriculture and Agri-Food Canada research stations, provincial Agri-ARM sites, and the Canada-Saskatchewan Irrigation Diversification Centre, in order to conduct the trials. The project collects data on varieties from the CDC program, as well as those arising from other public or private pulse breeding programs. Since 2006, field pea, lentil, chickpea, dry bean and faba bean variety trials were conducted at 3-15 locations per crop in their target areas of adaptation in Saskatchewan. (Source: CDC)

Relative Maturity

Ratings

Maturity is measured from seeding to swathing ripeness. The actual number of days to reach maturity depends on local climatic conditions and to some extent on management practices.

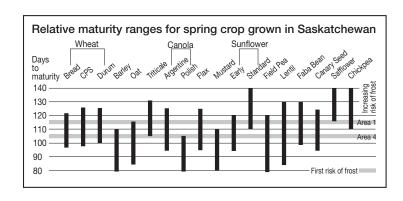
Some of the tables in this booklet express the relative maturity in days while others use a five category scale: VE, E, M, L, and VL (very early, early, medium, late, very late). The limits for each category can vary from crop to crop. In barley, for example, AC Metcalfe would be M, with L and E varieties plus or minus 1-2 days, and VL and VE varieties beyond this range.

Comparisons

The relative maturity of varieties of different crops is important when making plans for seeding.

The table below compares the relative maturity ranges for crops grown in Saskatchewan. Within each crop there are early and late maturing varieties. Whether a crop matures before the first killing frost depends on seeding date, management practices and environment factors. Not all crops have a wide area of adaptation.

It is noted that climatic conditions can cause a wide variability in crop maturity.



Plant Disease Resistance

By Saskatchewan Ministry of Agriculture

Resistance to the most important diseases in Western Canada is assessed in most crops before the variety is registered. The methods used to assess resistance in each crop are different. In some cases, spores of the pathogen are applied to plants in the greenhouse or in the field. In other cases, assessment is based on naturally occurring infection in the field. Each variety is rated on a five-point scale of very poor (VP), poor (P), fair (F), good (G), very good (VG). New varieties are not tested side-by-side with all existing varieties.

Because of variation in disease levels from year to year, each new variety is assigned a rating relative to a few existing varieties that serve as disease level standards or checks. Varieties differ in resistance because of differences in their genetic makeup and/or differences in the genetic makeup of the pathogen that causes the disease. However, the genetic make-up of a pathogen can change over time, and overcome

the resistance in a variety. In such cases, a variety with good resistance can quickly display poor resistance to a particular disease. Unfortunately, because not all varieties are tested side-by-side every year, the ratings of older varieties may be less reliable.

Preserving the efficacy of disease resistance genes in current crop varieties is the most economical method of plant disease control. Disease resistance can be prolonged with good agronomic and integrated pest management practices. Crop type, variety and fungicide rotation is an important method of preserving the effectiveness of disease resistance genes and fungicides. Disease resistance genes usually become ineffective due to short rotations and the prolonged use of one crop variety on a large acreage.

A number of factors can affect the level of disease symptoms observed at a given location in a given year. Environmental conditions such as moisture and temperature, the genetic make-up of both the variety and the pathogen, and the amount of the pathogen present can all affect the level of disease. Although a variety with fair resistance can show disease symptoms under favourable conditions, a susceptible variety would have much more disease under the same conditions.

For example, ascochyta blight of chickpea is a very aggressive fungal disease. It can completely kill susceptible varieties within two weeks of symptoms first appearing. Chickpea varieties currently grown commercially in Saskatchewan have fair ascochyta blight ratings. This resistance weakens as plant development nears the flowering stage. Cool, moist environmental conditions favour the disease, and if these conditions persist early in the growing season, the disease symptoms can occur much earlier than the flowering stage. This is especially true on chickpea grown outside the Brown Soil Zone (the area of best adaptation) or on heavy textured soils such as clays and clay loams.

In the past, infected chickpea varieties lacking resistance to ascochyta blight can be defoliated, with girdled branches and dead plants. If conditions turn warm and dry, the diseased plants can re-grow from auxiliary nodes, often producing flowers and pods. However, these late pods and seeds will most likely be frozen in the first fall frost and have no commercial value.

What is Plant Breeders' Rights

Plant Breeders' Rights (PBR) provides a way to assure that companies and institutions that invest in plant breeding are able to keep reasonable control of their varieties and secure fair compensation for their efforts. This encourages additional investment in crop variety development for Canadian farmers.

Plant Breeders' Rights for crop variety developers are comparable in many ways to patent protection in other areas. When a plant breeder develops a new variety for use in Canada they may apply under the Plant Breeders' Rights Act to obtain certain controls over the multiplication and sale of the seed of that variety. Sale, trade or any



other transfer of the seed for propagation purposes is prohibited by law without:

- 1) the written permission of the breeder or their agent; and
- 2) payment of a royalty to the breeder or their agent.

Under PBR, farmers are allowed to save seed of the variety for their own use, on their own farms.

Varieties protected by Plant Breeders' Rights are identified with the above logo.

Further information can be obtained from the Plant Breeders' Rights Office, tel. 613-773-7188, fax 613-773-7261.

CEREAL CROPS

Wheat

Main Characteristics of Varieties

Category	Years	Area	Area	Irriga-	Pro-				Res	sistanc	e To				Rel. Ma-	Head	Seed	Vol- ume	Ht.
and Variety	Tested	1&2	3&4	tion	tein	Lodg- ing	Sprout- ing				Loose Smut	Bunt	Leaf Spot	FHB	turity (days)	Awned- ness	Weight (mg)	Wt. ² (kg/hL)	(cm)
CWRS ¹		Yield ((% AC	Barrie)		-	-									Relative	to AC B	arrie	
AC Barrie 🕲	11	100	100	100	14.9	G	G	G	Р	VP	G	F	Р	F	100	N	36.0	79.9	93
CDC Abound 🚳	7	109	106		-0.3	G	F	VG	Р	Р	F	F	Р	VP	+2	Υ	+2.4	-0.3	-10
CDC Alsask 🔌 §	4	107	106		+0.2	F	G	VG	VG	F	G	G	Р	Р	-1	Ν	-0.3	-1.3	-1
Alvena 🕲	4	105	104		+0.2	G	Р	G	F	F	G	G		Р	-2	N	-1.1	0.0	0
AAC Bailey 🕲	3	103	103		-0.3	G	G	VG	VG		Р	G	F	F	-2	N	+0.3	-3.0	0
AAC Brandon ¹ 🗘	2	109	105		-0.6	G	Р	VG	VG	G	G	Р	F	G	+1	Υ	-0.5	-1.8	-12
Carberry @	5	109	103		-0.1	VG	F	G	VG	G	G	VG	Р	G	+3	Υ	+1.2	+1.2	-12
Cardale ¹ 😯	4	102	105		+0.1	G	G	VG	VG	G	F	G	Р	G	+1	Υ	-3.3	0.0	-9
AAC Elie ¹ 🛟	2	108	103		-0.5	G	F	VG	VG	G	F	F	F	F	+1	Υ	-0.3	-1.6	-13
AC Elsa 🕲 §	7	103	104	97	-0.1	G	F	VG	G	F	G	F	F	Р	-1	N	-2.4	-0.5	-1
Fieldstar VB ³ @	9	111	110		-0.3	F	VG	G	VG	Р	F	F	F	F	0	Υ	-2.1	+0.7	+3
Glenn 🕲	5	107	107		-0.5	VG	F	VG	VG	G	F	F	F	F	+3	Y	-1.7	+1.9	-4
CDC Go	4	102	103		-0.1	G	Р	VG	F	G	Р	F	VP	Р	-1	Υ	+3.6	-0.3	-6
Goodeve VB ³ 💩	9	111	111		0.0	VG	G	G	G	F	G	P	F	VP	-2	N	+0.8	-0.9	-2
Harvest 🔞	6	101	104		-0.4	VG	VG	VG	G	G	G	VP	Р	VP	-1	N	-0.4	+0.1	-6
CDC Imagine 💩 §	5	98	102		-0.1	G	F	F	F	F	G	G	P	VP	0	N	-1.7	-1.8	-3
Infinity 🕲	8	107	107		-0.2	G	G	G	G	Р	G	G	G	VP	-1	N	-2.8	-0.6	-1
AC Intrepid	5	101	104	102	-0.3	G	P	G	G	G	F	G	P	P	-3	N	-0.2	-0.4	-2
KANE (a) §	5	104	104		-0.2	G	VG	VG	VG	G	P	F	F	F	+1	Y	-0.5	+1.4	-5
CDC Kernen 🕲	5	110	109		-0.1	G	P	G	G	F	VG	F	F	F	+1	Y	+1.3	-0.1	+3
Lillian 🚷	7	101	98		+0.3	F	G	G	VG	VG	F	G	G	VP	0	N	-0.3	-1.1	-1
CDC VR Morris ¹ 🗘	3	113	111		-0.3	G	P	G	VG		F	F	F	G	-1	N	-2.3	+0.7	-2
Muchmore 🚳	5	115	103		-0.5	VG	G	VG	VG	G	G	VG	Р	Р	+3	Y	+1.3	0	-15
CDC Osler §	3	101	104		-0.3 -0.3	G VG	F P	VG VG	G VG	F G	G VG	G F	F P	F G	-1	N N	-3.7 -2.9	-0.7	-2
CDC Plentiful ¹ CDC Redwater ¹ CDC	2	111	109		-0.3	G	VG	VG	VG	G	P	F	P	F	-1 -2	Y	-3.3	-0.3 -3.1	-4 -5
Shaw VB	5	121	119		-0.3	G	G	VG	G	F	VP	G	Р	Р	+1	N	-0.4	-1.6	+5
CDC Stanley (6)	5	114	112		-0.7	G	G	VG	G	F	G	VP	F	Р	0	N	-2.2	-1.1	-3
Stettler (a)	6	114	110	106	+0.1	G	G	G	Р	G	VG	G	Р	Р	+1	Y	-0.6	0.0	-6
SY4331 C	3	101	110		-0.3	G	VG	VG	VG		F	VP	F	G	0	Y	+0.1	-1.7	+2
CDC Thrive	5	110	111		-0.1	G	F	G	F	F	G	F	F	Р	0	N	-0.5	0.0	+1
Unity VB ³	9	118	119		-0.7	F	VG	G	VG	Р	Р	VG	F	F	0	Y	-0.6	+1.0	+1
CDC Utmost VB ³	5	119	116		-0.5	G	G	G	VG	F	P	VP	F	P	-1	N	-0.5	-0.1	-3
Vesper VB ^{1,3}	4	117	116		-0.9	F	F	G	VG	VP	F	VP	P	F	0	Y	+0.9	-1.2	-1
Waskada 🚳	9	117	112	108	-0.3	F	VG	VG	F	Р	G	VG	Р	G	+1	Υ	+0.3	+1.4	+4
WR859 CL 🔞	6	111	104	108	-0.2	G	G	G	VG	F	VG	VG	Р	G	0	Y	-2.2	0.0	-7
5602HR ∅ §	6	103	104		+0.1	F	F	VG	VG	F	VG	G	Р	G	+1	Υ	0.0	+1.6	+1
5603HR ¹ 🙆	5	113	112		-0.7	G	VG	G	VG	Р	Р	F	G	F	+3	Υ	-2.7	-2.0	+1
5604HR CL¹ ⊗	5	105	102		-0.8	G	G	VG	VG		Р	F	Р	F	-1	Υ	-2.5	-0.3	-2
5605HR CL¹ ♦	2	105	112		0.2	G		Р	G		VG	G	Р	G	+1	Υ	-2.0	-0.3	-2
Hard White Spring ¹																			
AAC Iceberg 😯	2	105	101		-0.9	G	Р	VG	VG	F	Р	F	Р	F	0	Υ	+2.5	+0.7	-8
Snowbird @ §	5	99	102		-0.6	G	G	G	F	Р	G	Р	Р	F	0	N	-1.8	-0.4	+1
Snowstar 🙆	4	105	107		-1.2	VG	G	VG	G	Р	Р	VP	Р	Р	-1	Ν	-5.2	+1.2	-9
AAC Whitefox 🗘	2	105	111		-1.2	VG		G	G	Р	Р	Р	Р	F	-1	N	-1.2	+0.4	0
Whitehawk 🚳	3	103	97		-1.0	G	G	F	VG	Р	F	Р	Р	Р	-2	N	-4.1	+0.3	-5
CDC Whitewood 🕄	2	98	99		-0.5	G	G	G	G	F	VP	VP	Р	F	0	Υ	-0.8	-0.1	-10
Soft White Spring ¹																			
AC Andrew	5	138	135		-3.6	G	Р	G	Р	F	VP	VP	F	F	+5	Υ	+0.7	-1.8	-9
AAC Chiffon 🕄	2	152	140		-4.1	G	VP	VP	F	G	VP	VP		VP	+5	Υ	+5.6	+1.2	+1
Sadash 🔞	5	146	134		-4.3	VG	Р	G	F	VG	F	VP	F	VP	+5	Υ	+0.7	+0.6	-6

Wheat (cont'd)

Category	Years	Area	Area	Irriga-	Pro-				Res	istance	e To				Rel.	Head	Seed	Vol- ume	Ht.
and Variety	Tested	1&2	3&4	tion	tein	Lodg- ing	Sprout- ing	Stem Rust		Stripe Rust		Bunt	Leaf Spot	FHB	Matu- rity	Awned- ness	Weight (mg)	Wt. ² (kg/hL)	(cm)
CPSR ¹		Yield	(% AC	Barrie)												Relative	to AC E	arrie	
Conquer VB ³ 🛞	5	124	124		-1.5	F	Р	VG	G	G	Р	VG	F	Р	+1	Υ	+9.6	+1.8	-4
AC Crystal 🚳	11	118	115	110	-1.3	VG	Р	VG	Р	VP	Р	VG	F	VP	+3	Υ	+4.9	-0.1	-11
Enchant VB 💩	3	117	116		-1.5	F	G	G	VG	VP	G	VG	Р	VP	+1	Υ	+16.8	+1.5	-5
AAC Ryley 🗘	2	113	115		-1.6	G	G	VG	VG	VP	F	VG	Р	Р	0	Υ	+12.8	-0.9	-11
SY985 🕲	4	113	111		-0.8	G	Р	VG	VG		VG	G	F	F	+1	Υ	+10.1	+0.4	-15
5700PR 🕲	5	115	119	115	-1.2	VG	F	VG	F	Р	Р	VG	Р	Р	+2	Υ	+6.8	+1.1	-16
5702PR 🕲	6	126	124		-1.6	G	Р	F	G	Р	Р	F	G	Р	+1	Υ	+8.5	0.0	-10
Canada Western Extr	ra Stron	g¹																	
Burnside	6	98	100		-0.1	F	G	VG	VG	VG	VG	F	Р	VP	0	Ν	+3.6	-0.4	+6
Glencross VB ³	4	110	118		-0.6	F	F	VG	G		VG	F	Р	VP	-1	Ν	+7.2	-2.5	+7
Canada Western Ger	neral Pu	rpose																	
AAC Innova 🛟	3	145	136		-3.6	G	VP	G	VG	VG	VP	VP	F	VP	+6	Υ	+2.4	-1.8	-7
CDC NRG003 💩	5	128	124		-2.0	G	G	VG	Р		Р	VG	VP	VP	0	Υ	+6.4	-1.8	-10
NRG010 🙆	5	129	127		-2.6	G	F	VG	VG	VG	Р	VG	Р	Р	+2	Υ	+3.3	-2.0	-7
Pasteur	3	143	137		-2.6	VG	G	G	VG	G	Р	VP	F	F	+8	N	+2.9	+0.9	-7
AAC Proclaim 🛟	2	129	128		-2.8	F	F	G	VG	Р	G	VP	F	G	+4	Υ	+0.8	+0.3	+10
CWAD	,	Yield (% Stro	ngfield)												Relative	to Stron	gfield -	
Strongfield @	6	100	100	100	14.5	F	F	VG	VG	G	Р	VG	F	VP	105	Υ	42.1	79.2	89
Brigade 🛞	5	109	112	110	-1.2	G	F	VG	VG	G	Р	VG	F	Р	+2	Υ	+1.1	+0.3	+6
AAC Current 🛟	2	101	95		0.0	F	F	VG	VG	G	Р	G	F	VP	0	Υ	+1.0	+1.0	+4
CDC Desire 🛟	2	102	100		-0.2	F	G	VG	VG	G	Р	VG	F	VP	-2	Υ	-3.0	-0.1	0
Enterprise 🕲	5	103	101	106	-0.2	F	G	VG	VG	VG	Р	G	F	Р	0	Υ	-3.2	+0.6	+2
Eurostar 🛞	5	100	104	102	-0.5	F	F	VG	VG	VG	Р	VG	F	Р	+2	Υ	+0.6	+0.8	+4
CDC Fortitude	2	107	102		-0.2	VG		G	VG	G	Р	VG	Р	Р	+1	Υ	-2.0	0.0	-1
AAC Marchwell VB ³ €) 2	102	109		-0.4	F		VG	VG	VG	G	VG	Р	Р	0	Υ	-2.7	-0.6	0
AC Navigator 🚳	6	98	90		-0.7	G	G	VG	VG	VG	Р	VG	VP	VP	+2	Υ	+1.2	-0.1	-8
AAC Raymore 🕄	2	96	96		0.2	F	F	VG	VG	G	Р	G	F	VP	-1	Υ	-0.1	-0.1	0
Transcend 🚷	4	102	103	94	-0.3	F	G	VG	VG	VG	Р	VG	F	Р	+2	Υ	-1.4	0.0	+8
CDC Verona 🙆	5	102	104	103	-0.3	G	F	VG	VG	VG	Р	VG	F	Р	+2	Υ	+0.1	-0.2	+1
CDC Vivid	2	105	99		-0.2	G	F	VG	VG	G	F	VG	F	VP	0	Υ	-0.6	-0.2	0

¹ Includes direct and indirect comparisons with AC Barrie

Additional Information

Producers are strongly encouraged to use a combination of the Canadian Food Inspection Agency's List of Registered Varieties (www. inspection.gc.ca) and the Canadian Grains Commission's Variety Designation Lists (www.grainscanada.gc.ca) to determine the registration and grade eligibility status of varieties.

Grain yield, protein content, time to maturity, seed weight, volume weight and plant height of all varieties of common wheat and durum wheat are compared to AC Barrie and Strongfield, respectively.

Most varieties have been rated for their relative resistance to pre-harvest sprouting. Under wet postmaturity conditions varieties rated poor have a reduced ability to retain high Hagberg Falling Number values relative to those rated good or very good. Varieties with high test weight retain grade better under adverse harvest weather than those with low test weight. During wet harvest weather, grades drop more rapidly due to sprouting in swathed than in standing crops.

New races of leaf rust and stripe rust continue to evolve, so the rust resistance in varieties changes from year to year. This publication contains the most up-to-date information on rust resistance in current varieties. Early seeding may minimize risk of crop losses for varieties sown in southeastern Saskatchewan that are rated poor or very poor to leaf rust. Field scouting throughout the growing season is encouraged so that timely corrective action can be undertaken if required.

All varieties are at least moderately resistant to shattering. All varieties have moderately good resistance to common root rot.

Seed of varieties rated poor and very poor for

bunt and loose smut should be treated with a recommended fungicide. Please refer to the Seed Facts section of this booklet or Guide to Crop Protection.

All wheat and durum varieties exhibit similar susceptibility to ergot infestation.

CANADA WESTERN RED SPRING (CWRS)

Fieldstar VB, Goodeve VB, Shaw VB, Unity VB, CDC Utmost VB, and Vesper VB are CWRS midge tolerant varieties. They contain the same Sm1 gene for tolerance. To manage against the build-up of midge resistance to the Sm1 gene, an interspersed refuge is used commercially. These varieties are not immune to wheat midge and can suffer some midge damage when high midge infestation levels occur. More information on midge tolerant wheat cultivars and interspersed refuge can be found at: (www.midgetolerantwheat.ca).

² multiply by 0.8 = lbs per bushel

³ VB varietal blend

Wheat Additional Information (cont'd)

Seed of the new varieties AAC Brandon, AAC Elie, AAC Redwater, and 5605HR CL will not be available in 2014. Limited quantities of seed of the new varieties AAC Bailey, Cardale, CDC VR Morris, CDC Plentiful and SY433 will be available in 2014.

Lillian has solid stem and is the only spring wheat variety listed with some resistance to the wheat stem sawfly.

CDC Abound, CDC Imagine, CDC Thrive, WR859 CL, 5604HR CL, and 5605HR CL are tolerant to the CLEARFIELD® herbicides Adrenalin SC and Altitude FX.

CANADA WESTERN HARD WHITE SPRING (CWHWS)

Seed of the new varieties AAC Iceberg, AAC Whitefox, and CDC Whitewood, will not be available in 2014 Limited quantities of seed of Whitehawk will be available in 2014.

CANADA PRAIRIE SPRING RED (CPSR)
Conquer VB and Enchant VB are the only

CPSR midge tolerant varieties using the same *Sm1* gene as in the CWRS varieties and will be marketed with an interspersed refuge (see above). Seed of the new variety **AAC Ryley** will not be available in 2014. Limited quantities of seed of **Enchant VB** will be available in 2014.

CANADA WESTERN EXTRA STRONG SPRING (CWES)

Glencross VB is the only CWES wheat midge tolerant variety based on the *Sm1* gene and will be marketed with an interspersed refuge (see above).

CANADA WESTERN SOFT WHITE SPRING (CWSWS)

Soft white spring wheat may be used as a feedstock in the production of ethanol. Soft white spring wheat varieties are susceptible to pre-harvest sprouting. The leaf spot pathogens that affect other wheat classes also affect soft white cultivars and therefore recommendations for leaf spot control are similar. Seed of the new variety **AAC Chiffon** will not be available in 2014.

CANADA WESTERN GENERAL PURPOSE SPRING (CWGP)

Varieties in the General Purpose market class are intended for ethanol and livestock feed purposes. Seed of the new varieties **AAC Innova** and **AAC Proclaim** will not be available in 2014.

CANADA WESTERN AMBER DURUM (CWAD)

CDC Fortitude and AAC Raymore have solid stem with resistance to the wheat stem sawfly. AAC Marchwell VB is the only CWAD variety with orange wheat blossom midge tolerance based on the Sm1 gene and will be marketed with an interspersed refuge (see above). Seed of the new varieties AAC Current, CDC Desire, CDC Fortitude, AAC Marchwell VB, AAC Raymore, and CDC Vivid will not be available in 2014. Durum wheat varieties are generally more susceptible than CWRS varieties to Fusarium Head Blight. All durum varieties are susceptible to two new races of loose smut.

Winter Wheat

Main Characteristics of Varieties

Category and	Site	Yi	ield¹ (% C	DC But	eo)	Winter	Relative	Protein	Height			Resista	ance To		
Variety	Years Tested		loisture ential		/loisture ential	Survival ²	Maturity	(%)	(cm)	Lodging	Stem Rust	Leaf Rust	Stripe Rust	Bunt	FHB
Canada Western Re	ed Winter														
CDC Buteo (bu/ac)		40	60	80	100	VG	М	12.4	88	F	G	G	VP	VP	G
AC Bellatrix §	160	108	102	99	97	F	L	+0.1	0	G	VP	VP	VP	F	F
Emerson 😯	26	105	100	98	96	G	M	+0.3	-5	VG	VG	G	G	VP	VG
Flourish 💩	60	103	102	100	99	F	Е	+0.3	-10	VG	F	F	F	F	VP
AAC Gateway 🛟	29	113	107	104	102	F	M	+0.5	-13	VG	G	F	G	VP	F
McClintock	219	100	98	98	98	F	L	-0.2	+3	VG	VG	G	G	VP	VP
Moats 😂	74	98	102	104	104	G	M	+0.2	+1	G	VG	VG	G	Р	VP
CDC Osprey	178	105	102	100	99	VG	M	-0.2	+2	G	Р	Р	VP	VP	Р
Radiant 🚳	145	105	103	101	100	VG	L	-0.3	-1	VG	VP	VP	Р	VP	VP
Canada Western Ge	eneral Pu	ırpose													
Accipiter 🕲	144	110	107	105	105	G	М	-0.4	-7	VG	VG	G		VP	VP
Broadview 🙆	71	113	107	103	101	G	Е	-0.9	-9	G	VG	VG	VP	VP	VP
CDC Clair §	116	108	103	103	101	VG	М	-0.6	0	F	Р	Р		VP	
CDC Falcon ³	369	103	102	102	102	F	Е	-0.6	-15	VG	G	G	VP	VP	VP
CDC Harrier §	235	108	103	103	101	G	М	-1.2	+5	G	G	Р	VP	VP	Р
CDC Kestrel §	116	110	105	104	102	VG	M	-1.6	+5	G	Р	Р		VP	
Peregrine 🚳	114	115	110	108	105	VG	М	-0.4	+6	F	VG	VG	G	VP	Р
Pintail 🗘	35	103	105	106	107	VG	M	-1.4	-3	G	Р	Р	G	VP	VP
CDC Ptarmigan⁴	104	115	112	109	108	G	М	-2.1	+2	F	Р	Р	VP	VP	
CDC Raptor §	200	103	102	100	100	G	M	-0.6	-7	VG	VG	G		VP	
Sunrise ⁴	66	115	110	108	106	G	М	-0.9	-1	G	G	G	G	VP	
Swainson	43	123	113	109	107	F	М	-0.6	+7	F	VG	VG	G	VP	

¹ Yield: For a more in-depth yield analyses go to http://www.usask.ca/agriculture/plantsci/winter_cereals/variety-selector/index.php

²Winter damage: For more detailed information go to http://www.wheatworkers.ca/FowlerSite/winter_cereals/WWModel.php

³ Effective August 1, 2014, CDC Falcon will be moved from Canada Western Red Winter class to Canada Western General Purpose class.

⁴ CDC Ptarmigan has an awnless head and soft white kernels. Sunrise has soft red kernels.

Rye

Main Characteristics of Varieties

Variety	Years	Yield (%	Prima)	Relative		Resistance To)
	Tested	Area 1 & 2	Area 3	Maturity	Winter Damage	Shattering	Lodging
Prima	23	100	100	М	VG	F	F
Hazlet	10	116	100	M	VG	VG	VG
AC Remington	11	95	90	M	VG	VG	G
AC Rifle	23	95	86	M	VG	VG	VG

Additional Information

Medium maturity of rye means that the variety will mature about July 31 in an early year, August 4 in a medium year and August 8 in a late year. An early variety would mature about July 27 in an early year, July 31 in a medium year and August 4 in a late year. Late varieties would mature about August 4 in an early year, August 8 in a medium year and August 12 in a late year. Wet and cool conditions during maturation can prolong maturity far beyond these dates.

Triticale

Main Characteristics of Varieties

	Years	Area	Area	Test	Relative			Re	sistance	То		
Variety	Tested	1 and 2	3	Weight kg hL ⁻¹	Maturity	Lodging	Stem Rust	Leaf Rust	Bunt	Root Rot	Ergot	FHB
Spring Habit		Yield (% A	C Ultima)									
AC Ultima	18	100	100	70	Е	G	VG	VG	VG	F	Р	F
Brevis	7	110	109	73	Е	VG	VG	VG	VG		G	F
Bumper 🕲	3	104	112	71	Е	G	VG	VG	VG			Р
Bunker 🚳	4	92	97	73	Е	G	VG	VG	VG			F
AC Certa	14	97	98	74	М	G	VG	VG	VG	G		
Pronghorn	18	98	101	69	Е	G	G	VG	VG	F	F	G
Sunray	6	105	100	68	Е	G	VG	VG	VG		G	Р
Taza 🙆	4	108	101	69	E	G	VG	VG	VG		F	VP
Tyndal 🚳	4	99	102	73	Е	G	VG	VG	VG			Р
Winter Habit		Yield (% l	Pika)									
Pika	6	100	100	68	Е	F						
Bobcat	6	86	86	66	М	G						
Luoma 🙆	5	100	96	67	L	F						
Metzger 🛞	5	96	101	67	Е	G						

Additional Information

Spring triticale matures 1-2 days later than **AC Crystal** CPS wheat, therefore it should be planted as early as possible. The seeding rate for spring triticale should be at least 30 per cent more than that of CWRS wheat to obtain the same number of plants per square foot. Susceptiblity to Fusarium Head Blight is at least as great in triticale as in wheat. **AC Ultima** has an improved Hagberg Falling Number. **Brevis** is shorter and stronger straw. Tyndal and Bunker are spring forage types, and along with **Taza** have reduced awns.

Winter triticale has winter hardiness equal to that of winter wheat. **Bobcat**, **Luoma** and **Metzger** have reduced awns. **Bobcat** and **Metzger** are shorter and stronger straw.

All triticale cultivars are susceptible to ergot infection and similar in reaction. Severe infestation of ergot can occur in any of the available cultivars if environmental conditions are favourable. **Sunray** and **Brevis** represent improvements in ergot resistance.

Malting Barley

Main Characteristics of Varieties

Rough Yield Category¹ Years 2 or 6 or (% AC Metcalfe) Relative								Resistance To								
and Variety	Tested	Row	Smooth Awns	Area 1 & 2			Lodg- ing	Netted Net Blotch ³		Spot Blotch	Scald		Other Smuts	Root Rot	Stem Rust	FHB
Malting Acceptance:	Recomme	ended														
AC Metcalfe 🕲	11	2	R	100	100	М	G	VP	F	F	Р	VG	F	F	G	F
Bentley 🕲	7	2	R	113	112	L	G	Р	VG	F	Р	Р	G	F	G	Р
CDC Copeland @	8	2	R	107	108	M	G	F	F	VP	Р	Р	F	F	G	F
CDC Kindersley 🕲	6	2	R	104	106	E	G	Р	G	F	VP	VP	VG	F	G	F
Major 🛞	7	2	R	112	115	M	G	F	G	G	VP	VG	G	Р	G	F
CDC Meredith 💩	7	2	R	114	112	L	G	Р	VG	Р	Р	VG	G	F	G	F
Merit 57 🛞	7	2	R	109	107	L	G	Р	VG	Р	F	VP	F	G	F	Р
Newdale 💩	6	2	R	112	113	M	G	F	G	F	Р	VP	G	G	G	F
CDC PolarStar4 @	5	2	R	103	100	М	F	VP	G	Р	VP	VP	VG	Р	VP	G
Celebration 🙆	6	6	S	105	106	M	VG	VP	G	G	VP	VG	VG	Р	F	Р
Legacy 🕲	6	6	S	104	101	М	G	VP	G	G	Р	F	G	G	G	Р
Tradition	5	6	S	112	107	M	VG	VP	F	G	Р	VP	G	G	G	VP
Malting Acceptance:	Under Tes	st														
Cerveza 🚳	6	2	R	113	115	M	G	Р	G	VG	VP	VG	VG	F	F	F
CDC Landis 🚳	7	2	R	109	109	M	G	F	VG	F	VP	VP	G	Р	G	F
AAC Synergy 😂	4	2	R	118	113	М	G	G	VG	VG	VP	VP	F	F	G	Р
CDC Anderson 🚳	6	6	R	104	107	M	G	Р	G	VG	Р	G	VG	F	G	F
CDC Mayfair 🕲	7	6	R	105	109	М	G	Р	G	F	Р	VP	VG	Р	G	Р
Other ⁵																
Harrington	11	2	R	95	89	М	F	VP	Р	VP	Р	Р	Р	F	Р	G
CDC Kendall 🔞	11	2	R	101	102	М	G	F	G	VP	Р	Р	Р	G	Р	F
CDC Battleford @	6	6	S	108	108	М	G	Р	VG	VG	Р	Р	G	G	G	VP
CDC Clyde 🕲	8	6	S	110	106	М	VG	F	G	VG	Р	F	VG	G	G	VP
Innovation	3	6	R	107	107	М	VG	VP	G	G	Р	Р	G	F	G	F
Lacey	4	6	S	101	101	М	G	VP	F	G	Р	F	G	G	G	VP
Stellar-ND 🔞	5	6	R	107	105	М	VG	VP	F	G	VP	G	VG	Р	F	F

¹ These categories are established annually by the Canadian Malting Barley Technical Centre (Call 204-984-4399 for more information).

Lines Under Test for Malting and Brewing Quality

Small scale tests are a good measure of malting potential, but are not sufficient to determine the commercial acceptability of malting varieties. Final acceptance is given only after two years of successful plant scale evaluation. Several carload lots of barley are malted and brewed. The beer is then given the ultimate test – a taste panel. This process normally takes a minimum of three years since a crop grown in one year will be malted in January-February, brewed in May-June, and aged and tasted in October-November of the following year.

Additional Information

Growers are reminded that the malting and brewing industry is cautious about using new varieties. Growers are cautioned that most malting varieties, especially two-row barley, are more susceptible to sprouting.

² Relative maturity: The relative maturity of the check, **AC Metcalfe**, is M (on average, 91 days from seeding to swathing ripeness).

There are two forms of net blotch, netted (*Pyrenophora teres f. teres*) and spotted (*Pyrenophora teres f. maculata*). Generally, in Saskatchewan the netted form is more prevalent.

CDC PolarStar is available only through a closed loop Identity Preserved program offered by Prairie Malt Limited/Sapporo Breweries and their agents.

⁵ Although not on the CMBTC list, a malting barley market may exist for these varieties.



Recommended Malting Barley Varieties 2014-15

These recommendations are based on the varieties expected to be selected by grain and malting companies for both domestic and export markets from the 2014 harvest. Seeding decisions should be based on agronomic considerations and feedback from your grain company representative, local elevator operators and malting companies. This list is published on behalf of the members of the CMBTC, and other companies that have provided their input. Varieties not listed are not recommended. The varieties are listed in descending order to the amount expected to be selected next crop year.

Recommended Two	o-Row Barley Varieti	es
VARIETY	DOMESTIC	EXPORT
AC Metcalfe ₄	Established	Established
CDC Copeland₄	Established	Established
CDC Meredith ₄	Established	Limited
CDC PolarStar ₅	Established	Established

The four varieties above will represent 80 to 85% of the anticipated selections.

The varieties in the table below represent 15 – 20% of the anticipated selections and it is expected that several of them will become dominant varieties in the future.

VARIETY	COMMERCIALIZATION STATUS
Newdale ₃	Established
Major ₁	Increasing
Bentley₅	Increasing
Merit 57 ₅	Increasing
CDC Kinderslev ₄	Increasing

Note: Norman, Cerveza, CDC Landis, ABI Voyager, and AAC Synergy are not yet being grown for the commercial market. Production is limited to quantities required for testing and market development. **CDC Polarstar is available only through a closed loop Identity Preserved program offered by Prairie Malt Limited/Sapporo Breweries and their agents.

Recommended Six	c-Row Barley Varietie	es
VARIETY	DOMESTIC	EXPORT
Legacy _{1,2,3}	Established	Established
Tradition _{1,2,3}	Established	Established
Celebration₅	Limited	Limited

CDC Mayfair and CDC Anderson are not yet being grown for the commercial market. Production is limited to quantities required for testing and market development. Please talk to your local malting company selector in regards to demand for Lacey and Robust.

"Domestic" as used in this publication, means barley selected for domestic processing into malt to supply domestic brewers as well as for malt destined for export. "Export" is that malting barley designated for markets outside of Canada including the U.S., shipped as unmalted grain.

The following companies have pedigreed seed distribution rights for those varieties that are footnoted: 1-Viterra; 2- BARI-Canada; 3 – FP Genetics; 4 - SeCan; 5 – CANTERRA SEEDS

The CMBTC and its' members recommends the use of Certified seed to ensure varietal purity and to increase opportunity for selection.

CMBTC Members: Alfred C. Toepfer (Canada) Ltd., CANTERRA SEEDS, CWB, Canadian Grain Commission, Cargill AgHorizons, SABMiller, Richardson International, Parrish and Heimbecker, Prairie Malt Limited, the Public Barley Breeders, Syngenta Canada Inc, SeCan, Manitoba Liquor Control Commission, Alberta Agriculture, Saskatchewan Agriculture, Manitoba Agriculture Food and Rural Development, Molson Coors, Alberta Barley Commission, Fedoruk Seeds, FP Genetics and Viterra. **Other organizations providing input to this list:** BARI-Canada, BMBRI

Questions? Call your selector, seed company, grain handling company, or contact the CMBTC at 204-984-4399 (cmbtc.com)



Feed and Food Barley

Main Characteristics of Varieties

Category	Years	2 or 6	Rough or		eld Metcalfe)	Relative				Resi	stance	To				
and Variety	Tested	Row	Smooth Awns	Area 1 & 2	Area 3 & 4		Lodg- ing	Netted Net Blotch ²		Spot Blotch	Scald		Other Smuts		Stem Rust	FHB
Hulled																
CDC Austenson 💩	7	2	R	118	121	М	G	Р	VG	G	VP	VP	VG	F	F	F
CDC Bold	7	2	R	111	112	L	G	VP	F	VP	Р	Р	G	G	G	VP
Brahma 🛟	7	2	R	114	115	М	G	VP	F	VP	Р	Р	VG	G	Р	F
Busby 🙆	6	2	R	104	106	Е	G	Р	G	Р	F	VP	VG	VP	F	F
Canmore 🛟	3	2	R	110	115	L	VG	Р	G	F	G	VG	VG	F	Р	F
Champion 🕲	8	2	R	117	117	M	G	VP	F	Р	VP	VP	VG	G	F	F
CDC Coalition 🕲	7	2	R	111	114	М	VG	VP	G	F	Р	VG	G	F	G	F
CDC Cowboy 🕲	6	2	R	99	105	L	F	F	G	F	Р	Р	G	F	G	G
CDC Dolly	11	2	R	103	103	Е	G	VP	Р	VP	F	VP	F	F	Р	G
Gadsby 🛞	6	2	R	110	111	М	F	Р	G	VP	VG	VG	VG	F	G	F
CDC Helgason 💩	7	2	R	105	106	М	G	G	G	F	Р	VG	G	F	F	Р
CDC Maverick 🗘	4	2	S	97	94	М	F	F	G	F	Р	VP	VG	F	G	G
McLeod 🕲	6	2	R	108	114	М	G	VP	F	VP	Р	VP	VG	F	Р	F
CDC Mindon 🛞	7	2	R	104	103	M	G	VP	G	F	VP	VG	VG	F	F	G
CDC Trey 🕲	5	2	R	104	110	М	G	F	VG	F	Р	Р	VG	G	G	F
Xena	7	2	R	112	115	М	G	VP	F	VP	Р	Р	Р	G	G	G
Amisk 😯	3	6	R	108	117	М	G	F	G	G	F	VP	Р	Р	G	VP
Breton 🗘	4	6	S	108	116	M	F	F	G	G	G	Р	G	F	G	VP
Chigwell 💩	7	6	S	107	111	М	G	F	G	G	G	Р	VG	VP	VP	VP
Muskwa 🗘	4	6	S	111	108	M	G	Р	G	G	G	Р	VG	Р	G	VP
AC Rosser 🛞	11	6	S	115	115	М	G	F	G	G	VP	Р	G	G	G	VP
Sundre 🙆	5	6	S	120	116	L	G	Р	F	F	VG	Р	VG	Р	F	VP
Hulless																
CDC Carter 🛞	7	2	R	94	99	М	G	F	G	F	Р	VG	VG	VP	F	F
CDC Clear 🛟	5	2	R	96	101	L	G	Р	VG	F	Р	VG	VG	F	G	G
CDC McGwire 🔞	8	2	R	98	99	М	G	F	G	F	F	Р	G	G	F	G
Taylor 🛞	6	2	R	78	84	М	VG	Р	G	F	VP	VG	F	Р	G	G

Relative maturity: The relative maturity of the check, AC Metcalfe, is M (on average, 91 days from seeding to swathing ripeness).

Forage Barley

Desperado, Dillon, and AC Ranger are six-row forage varieties. CDC Cowboy, CDC Maverick, and Stockford are two-row forage varieties.

Hulless

In hulless varieties the hull is left in the field, therefore, comparable yields are 9-12 per cent lower. Hulless seed is more susceptible to damage than hulled seed, so handling should be minimized. **CDC Lophy-I** is a low phytate, hulless two-row feed variety.

Hulless Food

CDC Alamo, CDC Candle, CDC Fibar, and CDC Rattan are high beta-glucan, waxy starch varieties. CDC Hilose is a high beta-glucan, high amylose starch variety. All are available for specialty markets. CDC Carter, CDC McGwire, Millhouse, and Roseland are two-row, normal starch, hulless barleys suitable for food use.

Irrigation

Disease resistance, straw strength and maturity are more critical when barley is grown under irrigation. Growers should select early, strong-strawed, disease resistant varieties.

Additional Information

Most available varieties are susceptible to one or more types of smut. Therefore, seed of susceptible varieties should be treated with a registered fungicide on a regular basis. Harvesting grain over 16 per cent moisture and then using aeration bins for drying can lead to sprouting and embryo death. Seed with reduced germination is undesirable for seed or malting. Two-row barley varieties are generally more resistant to shattering than six-row varieties.

² There are two forms of net blotch: netted (*Pyrenophora teres f. teres*) and spotted (*Pyrenophora teres f. maculata*). Generally, in Saskatchewan the netted form is more prevalent.

Oat

Main Characteristics of Varieties

	Years		eld Dancer)	Test	%	%	Relative	Height		- Resista	ance To	
Variety	Tested	Area 1 & 2	Area 3 & 4	Weight (g/0.5L)	Hull	Plump	Maturity ¹	(cm)	Lodging	Stem Rust	Crown Rust	Smut
CDC Dancer (6)	8	100	100	253	19.8	70	М	103	G	F	F	VG
SW Betania 🚳	7	105	105	245	22.0	67	M	97	G	VP	Р	G
CDC Big Brown 🕲	6	107	107	256	20.4	71	L	101	G	Р	G	VG
CDC Boyer	8	99	100	232	23.3	71	M	105	G	F	F	Р
Bradley 🕲	5	105	102	240	21.7	66	L	103	VG	Р	Р	VG
Derby	8	98	102	247	22.9	65	M	107	G	VP	VP	Р
HiFi 💩	6	99	97	253	22.4	55	М	103	G	F	VG	Р
Jordan 🚳	7	110	118	238	22.4	76	VL	102	G	F	F	VG
AAC Justice 🗘	3	112	114	255	22.4	61	L	101	G	F	VG	VG
Leggett 🕲	7	103	104	256	22.0	71	L	96	G	F	VG	VG
Lu	6	102	103	248	25.2	47	Е	99	G	VP	VP	G
CDC Minstrel 💩	7	106	107	245	21.0	75	L	98	VG	F	Р	VG
AC Morgan	8	104	108	236	25.1	54	L	101	VG	VP	VP	F
CDC Morrison 🚳	3	100	95	248	24.4	67	L	95	VG	F	VG	VG
CDC Nasser	6	110	107	233	21.8	64	VL	106	G	Р	VP	VG
CDC Orrin 🕲	6	108	109	253	23.2	74	L	103	G	Р	VP	VG
Pinnacle 🕲	8	113	109	244	23.6	70	VL	101	F	F	Р	VG
Ronald 🕲	7	96	99	249	22.4	55	L	97	VG	F	Р	VG
CDC Ruffian 🛟	4	113	112	247	20.4	72	L	95	G	VP	F	VG
CDC Seabiscuit @	7	110	106	240	20.3	73	L	100	G	F	Р	F
Souris 🕲	6	108	104	253	21.5	58	М	98	VG	G	VG	VG
Stride 🛞	5	111	111	255	22.9	65	L	103	G	F	VG	VG
Summit 🛞	6	103	103	256	21.6	67	М	94	G	F	VG	VG
Triactor 🔞	7	114	118	240	22.8	66	L	99	G	VP	G	F
CDC Weaver 🕲	7	108	111	245	19.2	71	L	104	F	F	Р	VG

¹ Maturity Rating M = 96 days

Additional Information

Although disease pressure is lower in eastern Saskatchewan than in Manitoba, crown rust races capable of attacking most varieties, except **CDC Big Brown**, **HiFi**, **Leggett**, **CDC Morrison**, **Souris**, **Stride**, **Summit**, and **Triactor** are increasing in southeast Saskatchewan. Early seeding will reduce the likelihood of severe infection.

Producers growing oats for the milling market are advised to check the "approved" varieties list available from the various oat millers.

Feed Oat

CDC SO-I and CDC Nasser are specialty feed oat varieties with higher digestible energy for cattle.

Forage Oat

CDC Baler, CDC Haymaker and Murphy are forage oat varieties available for annual forage production in Saskatchewan.

Hulless Oat

Bullion and **AC Gwen** are hulless varieties available for production in Saskatchewan. The hull is part of normal oat yield, thus hulless types yield less. They are difficult to handle and store and should be stored at less than 12 per cent moisture.

False Wild Oats or Fatuoids

False wild oats, or fatuoids, are off-types within common oat fields that have an appearance similar to wild oat, most noticeably, a prominent, dark awn and increased hairiness at the base of each floret. They are thought to result from the infrequent cross-pollination between common oat (*Avena sativa*) and true wild oat (*Avena fatua*). As such, their presence will likely be observed more often in fields planted from farm-saved seed. They have been reported within fields of common oat at rates up to 1 per cent and occur within all oat varieties.

OTHER CROPS

Buckwheat

Buckwheat is sensitive to high temperatures and dry weather conditions in the blossom stage, which can reduce seed set and yields. New self-pollinated varieties are being released. Buckwheat is very susceptible to frost at all stages of growth. Delayed seeding is advisable to avoid spring frost.

Caraway

Caraway is a biennial spice crop, producing seed in the second year and sometimes in the third year. Seedlings are small, slow in developing and compete poorly with weeds. The crop is usually swathed because of its indeterminate growth habit and seed shattering. For more information, consult the Saskatchewan Agriculture publication, *Caraway*.

Coriander

Coriander is an annual spice crop. Seedlings are small, slow to develop, and compete poorly with weeds. The large seedled type is earlier maturing than the small seedled type. **CDC Major** is a large-seedled coriander variety and **CDC Minor** is a small-seedled variety. The crop is usually straight-cut to avoid wind damage in swaths. For more information, consult the Saskatchewan Agriculture publication, *Coriander*.

Fenugreek

Fenugreek is a leguminous spice crop adapted to dryland conditions in the Dark Brown and Brown Soil Zones. The crop should be seeded early to avoid yield and quality loss from fall frost. Contract production is advisable, as markets are limited. For more information, consult the Saskatch-

ewan Agriculture publication, Fenugreek in Saskatchewan.

Safflower

Safflower is an annual oilseed or birdseed crop which can be grown successfully in the Brown Soil Zone. Safflower must be sown early (late April).

Saffire matures in about 120 days. Seed should be planted shallow but into a firm, moist seedbed at about 30 kg/ha (27 lbs/ac). Saffire has moderate resistance to sclerotinia head rot and alternaria leaf spot. Contract production is advised.

AC Sunset has the earliness of Saffire combined with higher oil content and resistance to sclerotinia head rot.

Canaryseed

Main Characteristics of Varieties

Variety	Туре	Site Years Tested	Yield¹ (% CDC Maria)	Days to Heading	Days to Maturity	Height (cm)	Test Weight (kg/hL)³	Seed Weight (g/1000)
CDC Maria	glabrous	94	100	59	101	97	70	7.5
CDC Bastia	glabrous	82	114	+1	0	+2	0	+0.1
Cantate ²	hairy	37	131	+1	+2	+2	-6	+0.1
Keet	hairy	94	123	+3	+3	+5	-6	-0.2
CDC Togo 🔞	glabrous	87	111	+1	+1	0	-1	+0.7

¹ Yield data not collected by Area

Additional Information

The seed of annual canarygrass, more commonly called canaryseed, is used as food for caged and wild birds. **Elias** pedigreed seed has not been produced in recent years. Seed hulls of **CDC Bastia**, **CDC Calvi**, **CDC Maria**, and **CDC Togo** do not have the small sharp hairs that cause irritation when canaryseed is threshed and handled and are called glabrous. **CDC Calvi**, a new, higher yielding glabrous variety was registered in 2013. Seed of **CDC Calvi** will not be available in 2014.

Canaryseed plants have a dense, shallow root system and growing the crop on sandy soils is not recommended. Canaryseed may be grown successfully on stubble, providing adequate moisture is available for rapid germination and emergence. The recommended seeding rate is 34 kg/ha (30 lb/ac) with germination greater than 85 per cent. Reduced emergence might be expected if canaryseed is seeded below 5 cm

Canaryseed is subject to damage by English grain aphid and bird cherry oat aphid. Aphid populations build up rapidly on leaves, stems and head of the plant in July and August and may require an insecticide application to prevent yield loss. Information from the United States indicates that infestations of 10 to 20 aphids on 50 per cent of the stems prior to soft dough stage may cause enough damage to warrant insecticide application. The aphids often hide in the dense head of the canaryseed plant. Damage may occur at populations below these levels.

Canaryseed leaf mottle is a foliar disease that can cause yield losses. Leaf mottle is caused by a fungus, *Septoria triseti* that only affects canaryseed. The disease is inconspicuous at early stages because there is little visual contrast between healthy and diseased leaf area. Stubble borne inoculum is the source of infection, thus crop rotation is key in limiting the severity of leaf mottle.

Canaryseed is resistant to shattering. It may be straight-combined or swathed when fully mature. For more information on canaryseed, consult the Saskatchewan Agriculture publication, *Canaryseed*.

² 2004-2013 data only

³ multiply by 0.8 = lb per bushel

General Seed Facts

Pedigreed Seed

Use certified seed regularly. This assures that the seed has high genetic purity, high germination and is relatively free from weeds and other crop seeds.

Re-Use of Hybrid Seed

Seed grown from a hybrid variety (regardless of crop or variety) should not be re-used since a 20 to 25 per cent yield reduction can occur in the next generation. This reduction is due to loss of hybrid vigour and possible occurrence of male-sterile plants. Lack of uniformity for maturity and quality traits can also occur.

Seed Cleaning

Seed should be cleaned carefully to remove weed seeds, trash, small or broken kernels, ergot and sclerotia. Not all seed-cleaning plants are equipped to clean grain to acceptable seed standards.

Seed Treatment

Various fungicides have been registered for the control of seedling diseases caused by soil- and seed-borne pathogens.

Use of seed from cereal crops infected with *Fusarium* may result in poor emergence. Such seed should be treated with a registered fungicide before planting. Use of infected seed may introduce *Fusarium* diseases into unaffected areas.

Smuts that attack wheat, barley, oat and rye can be controlled by seed treatment. If seed from a crop in which bunt or smut was observed must be used for seed, seed should be tested and seed treatment should be considered. If the presence of smut is uncertain, varieties rated very poor should be treated every year, those rated poor every second year and those rated fair every third year.

Only systemic fungicides will control true loose smut of barley and wheat, and stem smut of rye. Pathogens causing the other types of smut (covered, false loose, oat smut and bunt) are carried on the outside of the seed and can be controlled by non-systemic seed treatments.

The virulent form of blackleg of canola is widespread in Saskatchewan. Seed treatment with a recommended fungicide can reduce the level of disease. Use of canola seed commercially coated with an appropriate seed treatment is a convenient alternative to on-farm seed treatment.

Wireworms that attack all grain crops, and flea beetles that attack canola and mustard, can be controlled by seed treatment with insecticides.

Read the label carefully before using any seed treatment or insecticide. Information on their use and recommended rates is found in the Saskatchewan Agriculture publication, *Guide to Crop Protection*. Carryover stocks of treated seed should be tested for germination before planting. Treated seed must not be delivered to an elevator or used for feed.

Seed-Borne Diseases of Pulses

Pulse growers should use seed that has been tested for seed-borne diseases such as ascochyta, anthracnose and botrytis. Tolerances for seed infection vary with the pulse crop, the disease, weather conditions of the region and the availability of a seed treatment. If infection of the crop from sources other than seed is likely, using seed with low infection levels becomes less important.

In regions with frequent rainfall and high humidity, tolerances will be lower. Thus, for ascochyta blight of lentil, use of seed with up to 5 per cent seed infection is acceptable in the Brown and Dark Brown Soil Zones, but 0 per cent is desirable in the Black Soil Zone. A seed treatment for ascochyta-infected lentil seed is available and is recommended if seed infection levels approach 5 per cent. In pea, up to 10 per cent seed infection with ascochyta is acceptable. In chickpea, 0 per cent ascochyta seed infection is recommended because of the high rate of transmission of the disease from the seed to the emerging seedlings and its highly destructive nature. Refer to Saskatchewan Agriculture publication, Guidelines for Seed-Borne Diseases of Pulse Crops.

Crop Rotation

Seeding into stubble of the same crop kind will increase disease risk, particularly in higher rainfall areas. Residue of infected crops may harbour disease pathogens. Maintain a diverse crop rotation.

Ergot

Ergot attacks all varieties of rye, triticale, wheat and barley, as well as most common grass species. Oat is rarely attacked and all broadleaf species are immune. Grain containing 0.1 per cent ergot is considered poisonous and should not be used for food. Refer to the Saskatchewan Agriculture publication *Ergot of Cereals and Grasses*.

Seed Inoculation

Legume crops obtain much of their nitrogen requirement by forming a symbiotic association with soil bacteria called *Rhizobium*. These bacteria colonize the roots to form structures called nodules where they fix nitrogen for the legume plant. To enhance nitrogen fixation, the legume crop seed should be inoculated. **Use the proper strain of bacteria specific to that crop**. For further details, consult the *Pulse Production Manual* (Saskatchewan Pulse Growers).

Damp and Frozen Seed

Seed which is stored damp or tough may be low in germination and may lack adequate vigour. Grain which will be used for seed should be dried, if necessary, soon after harvest. The drying temperature should be below 37°C for batch driers and 43°C for recirculating and continuous driers. Frozen grain should always be tested for germination by a seed-testing laboratory before planting. Such grain will frequently produce a high percentage of abnormal seedlings.

Wheat Midge

All wheat classes, including durum and triticale, are susceptible to wheat midge. Farmers in infested areas should be prepared to spray fields with recommended insecticides if necessary. Consider the use of midge-tolerant varieties. Refer to the Saskatchewan Agriculture publication, *Wheat Midge*.

The Saskatchewan Advisory Council on Grain Crops (SACGC) and the Saskatchewan Variety Performance Group (SVPG) coordinate, supervise and review the collection, analysis and reporting of information in this booklet. Membership consists of representatives from:

- · Saskatchewan Ministry of Agriculture
- Seed Companies
- Saskatchewan Seed Growers Association
- Producer Associations

- · Agriculture and Agri-Food Canada
- Crop Development Centre
- University of Saskatchewan
- Saskatchewan Crop Insurance Corporation

SACGC and SVPG gratefully acknowledge the contributions of all individuals and organizations involved in the generation and publication of this information.

PULSE CROPS

Lentil

Main Characteristics of Varieties

					eld		Davis		Resist	ance To		Cata	Seed
Market Class	Variety	Herbicide Tolerance ¹	Years Tested ²	(% CDC Area 1 & 2	Maxim) Area 3 & 4	Height (cm)	Days to Flower	Maturity Rating ³	Asco- chyta Blight	Anthrac- nose Race 1	Seed Coat Colour	Coty- ledon Colour	Weight (g/1000
Small red	CDC Maxim	CL	7	100	100	34	51	E/M	G	G	gray	red	40
	CDC Cherie		5	109	106	32	51	E/M	G	F	gray	red	39
	CDC Dazil	CL	6	104	101	33	53	E/M	G	F	gray	red	35
	CDC Imax	CL	7	95	81	35	51	E/M	G	F	gray	red	45
	CDC Impact	CL	6	80	76	30	47	Е	G	Р	gray	red	34
	CDC Red Rider		6	95	85	34	52	E/M	G	F	gray	red	45
	CDC Redberry		6	97	99	34	50	E/M	G	G	gray	red	42
	CDC Redcliff		7	107	103	35	51	E/M	G	F	gray	red	38
	CDC Redcoat		6	105	93	33	50	E/M	G	G	gray	red	39
	CDC Rouleau		6	96	93	33	52	M	G	G	gray	red	37
	CDC Scarlet		5	108	104	35	53	E/M	G	F	gray	red	36
Extra small red	CDC Impala	CL	6	94	91	30	51	E	G	G	gray	red	31
	CDC Imperial	CL	6	84	79	30	49	Е	G	G	gray	red	30
	CDC Redbow		6	102	99	30	49	Е	G	G	gray	red	32
	CDC Rosebud		6	100	99	30	50	Е	G	G	tan	red	31
	CDC Rosie		5	97	91	33	52	E/M	G	G	gray	red	30
	CDC Ruby		7	90	91	30	48	Е	G	G	gray	red	29
Large red	CDC KR-1		7	110	91	37	52	M	G	G	gray	red	56
	CDC KR-2	CL	3	104		37	52	M	G	G	gray	red	55
Small green	CDC Imvincible	CL	7	99	84	33	49	Е	G	G	green	yellow	34
	CDC Milestone		6	91	84	31	49	Е	G	VP	green	yellow	37
	CDC Viceroy		6	97	98	34	49	E	G	G	green	yellow	33
Extra small gree	nCDC Asterix		6	99	101	30	48	Е	G	F	green	yellow	26
Medium green	CDC Impress	CL	6	87	71	34	50	М	G	Р	green	yellow	52
	CDC Imigreen	CL	7	78	71	44	50	M	G	VP	green	yellow	57
	CDC Meteor		6	102	89	34	50	M	G	VP	green	yellow	51
	CDC Richlea		6	93	80	35	50	M	VP	VP	green	yellow	51
Large green	CDC Greenland		7	89	70	38	52	M/L	G	VP	green	yellow	64
	CDC Greenstar		4	100	77	40	52	M/L	G	F	green	yellow	73
	CDC Impower	CL	6	86	78	41	52	M/L	G	VP	green	yellow	64
	CDC Improve	CL	6	87	76	39	51	М	F	VP	green	yellow	67
	CDC Plato		6	87	77	38	52	M/L	G	Р	green	yellow	62
	CDC Sovereign		6	83	77	40	52	L	G	Р	green	yellow	66
French green	CDC LeMay		6	84	80	35	48	E	F	VP	green marble	yellow	33
-	CDC Marble		5	108	103	36	49	Е	G	F	green marble	yellow	34
	CDC Peridot	CL	6	84	94	37	48	E	F	Р	green marble	yellow	38
Green cotyledon			5	80	65	42	51	М	F	F	green	green	49
-	CDC QG-2		3	89		40	48	E	F	F	green marble	green	32
Spanish brown	CDC SB-1		4	76	81	35	48	Е	F	F	gray dotted	yellow	37
-	CDC SB-2		5	95	85	37	49	E	G	G	gray dotted	yellow	37

¹ CL indicates Clearfield variety.

Additional Information

Seed supplies may be limited for CDC Scarlet, CDC Rosie, CDC Asterix. Seed supplies will be limited for CDC Greenstar, CDC Marble, CDC QG-2 and CDC KR-2.

Weight, diameter and thickness of lentil seeds will vary depending on environmental conditions and agronomic factors.

² Co-op and Regional Trials in Saskatchewan since 2006. Comparisons to the check variety, small red lentil **CDC Maxim**.

³ Maturity ratings: Normal maturity range in days based on May 1 seeding is E = 100, VL = 110 but maturity can be much earlier in dry years, much later in cool wet years. See Page 2 for more information on maturity range in lentil.

Field Pea

Main Characteristics of Varieties

		Yield (%	6 CDC 6	Golden)		Rel-	Lodg-	Vine	vine Resistance To					Seed		
Variety	Years Tested ¹	1, 2 & South 3		Irriga- tion	Leaf Type ²	ative Matu- rity	ing ³ (1-9)	Length (cm)	Mycos- phaerel- la Blight	Powdery Mildew	Fusari- um Wilt	Seed Coat Breakage	Bleach- ing		Gree- ness⁵	Weight (g/1000)
Yellow																
CDC Golden	11	100	100	100	SL	М	4.5	75	F	VG	F	G	n/a	G	G	230
Abarth 🗯	3	107	114		SL	М	3.5	75	F	VG	F	F	n/a	G	G	280
DS Admiral 🔞	6	86	100	89	SL	Е	4.5	80	F	VG	F	G	n/a	G	G	240
Agassiz 🛞	9	107	115	113	SL	М	4.5	85	F	VG	F	G	n/a	F	G	230
CDC Amarillo	5	111	125	117	SL	М	3.5	85	F	VG	G	F	n/a	F	G	230
Argus 🛞	5	100	109	107	SL	М	4.0	80	F	VG	F	F	n/a	F	G	230
CDC Bronco	8	101	101	96	SL	М	4.5	75	F	VG	F	G	n/a	G	G	230
CDC Centennial	5	99	110	110	SL	Е	5.5	70	F	VG	F	G	n/a	G	F	270
Cutlass	11	94	99	93	SL	M	5.0	75	F	VG	F	F	n/a	F	G	220
Delta	4	86	89		SL	Е	5.5	70	Р	Р		G	n/a			250
Earlystar 🔞	3	102	111		SL	Е	5.0	80	F	VG	F	F	n/a	G	G	210
Eclipse	11	90	96	95	SL	М	4.0	80	F	VG	Р	G	n/a	F	G	250
CDC Hornet	8	100	105	101	SL	M	4.0	85	F	VG	F	F	n/a	G	G	220
CDC Meadow	11	100	108	101	SL	Е	4.0	85	F	VG	F	G	n/a	G	G	220
SW Midas 🚳 §	5	97	94	99	SL	Е	4.0	80	F	VG	F	G	n/a	G	G	220
CDC Minuet §	5	93	99		SL	М	5.5	70	F	VG	F	F	n/a	G	F	190
CDC Mozart	7	96	99	101	SL	M	5.5	70	F	VG	F	G	n/a	G	F	220
Polstead	8	94	103	101	SL	М	5.0	75	Р	VG	Р	F	n/a	G	F	280
CDC Prosper	8	92	99	82	SL	Е	4.5	80	F	VG	G	G	n/a	F	G	150
Reward 🔞	5	90	105	101	SL	М	4.0	90	F	VG	F	G	n/a	G	F	240
CDC Saffron	6	107	113	101	SL	М	4.0	80	F	VG	F	G	n/a	F	G	250
Sorento 💩	7	93	101	106	SL	М	5.5	80	F	VG	F	G	n/a	F	G	260
Thunderbird 🔞	6	98	104	101	SL	М	4.0	85	F	VG	F	G	n/a	G	F	220
CDC Treasure	9	97	109	104	SL	Е	4.0	80	F	VG	F	F	n/a	F	G	210
Green																
Cooper 🙆	11	99	100	95	SL	L	4.0	80	F	VG	F	F	G	G	n/a	270
CDC Limerick	5	105	110	101	SL	L	3.5	85	F	VG	F	VG	G	G	n/a	210
CDC Patrick	9	95	104	97	SL	M	4.5	80	F	VG	G	G	G	G	n/a	190
CDC Pluto	6	102	102	102	SL	M	5.5	80	F	VG	F	G	G	G	n/a	160
CDC Raezer	6	92	104	104	SL	M	3.5	85	F	VG	G	G	G	G	n/a	220
CDC Sage	5	81	88	82	SL	M	4.0	80	F	VG	G	G	G	F	n/a	220
SW Sergeant	5	81	85	85	SL	M	4.0	80	F	VG	F	G	G	G	n/a	200
CDC Striker	11	89	100	93	SL	M	3.5	80	F	Р	G	VG	G	G	n/a	230
CDC Tetris	7	99	112	98	SL	L	4.0	85	F	VG	G	G	G	G	n/a	210
Maple																
CDC Acer	3	93	92		SL	L	6.5	60	F	VG		G	n/a	VG	n/a	170
CDC Mosaic	4	90	92	65	SL	L	4.0	85	F	VG		G	n/a	VG	n/a	180
CDC Rocket	3	86	101	94	SL	M	6.0	75	F	VG		G	n/a	VG	n/a	210
Dun			10		0:									.,,-		05=
CDC Dakota	4	117	124	111	SL	M	3.5	85	F	VG		G	n/a	VG	n/a	205
Forage	0	7.	0.0				0.=	460	_				,			4.0
40-10	3	75	82	52	N	L	8.5	120	Р	P		G	n/a	G		140
CDC Horizon	4	97	98	70	SL	M	4.5	90	F	VG		G	n/a	G	G	170
CDC Leroy	3	91	93	84	SL	M	5.0	95	F	VG		G	n/a	G	G	150
Trapper	7	63	66		N	L	8.5	115	P	P		G	n/a			130
CDC Tucker 1 Co-op and regiona	3	91	97	83	SL	M	4.0	100	F	VG		G 20%; F = 21-5	n/a	G	F	170

Co-op and regional trials in Saskatchewan

Additional Information

The following varieties have purple flower colour and pigmented seed coats: CDC Acer, CDC Mosaic, CDC Rocket, CDC Dakota and 40-10. CDC Acer, CDC Mosaic, and CDC Rocket have a maple patterned seed coat, 40-10 has a speckled seed coat, while CDC Dakota has a solid dun (tan) coloured seed coat. All other varieties have white flower colour and non-pigmented seed coats.

² N = normal leaf type; SL = semi-leafless

³ Lodging score (1-9) where 1 = completely upright, 9 = completely lodged

Seed coat dimpling: VG = 0-5%; G = 6-20%; F = 21-50%

⁵ Greenness: Good = 0-15%; Fair = 16-40%

Field Pea Additional Information (cont'd)

For detailed production information consult the *Pulse Production Manual* published by Saskatchewan Pulse Growers. The relative maturity of the check variety **CDC Golden** is M (Medium), which is on average 90 days from seeding to swathing ripeness. Please add 3-4 days for each rating beyond Medium. As harvest proceeds into the fall, these ranges expand.

Chickpea

Main Characteristics of Varieties

Market	Variety	Years	Yield (% Amit)	Ascochyta Blight ²	Height	Days to	Maturity	Seed Weight	Seed	Seed or Seed Coat
Class	variety	Tested	Area 1 ¹	Area 2¹	Blight ²	(cm)	Flower	Maturity	(g/1000)	Shape ³	Colour ⁴
Kabuli	Amit (B-90)	12	100	100	4.4	47	56	L	258	Ro	В
	CDC Alma	5	88	94	6.2	43	53	L	369	RH	В
	CDC Frontier	12	107	104	4.4	46	56	L	349	RH	В
	CDC Leader	8	108	107	4.4	42	54	М	389	RH	В
	CDC Luna	11	97	100	5.7	40	53	M/L	369	RH	В
	CDC Orion	7	107	107	4.9	46	51	L	439	RH	В
Desi	CDC Cabri§	11	103	101	4.8	49	51	М	304	Р	Т
	CDC Consul (603-3)	6	111	110	4.0	48	53	M	304	Р	LT
	CDC Corinne	11	114	110	4.1	45	55	М	244	A/P	Т
	CDC Cory	5	113	105	4.2	50	56	M	270	A/P	Т
	CDC Vanguard	11	108	108	4.8	43	53	M/L	221	Р	Т

¹ Area 1: brown soil zone; Area 2: dark brown soil zone

Additional Information

Please refer to 2014 SaskSeed Guide for pedigreed seed availability. For more details on production consult the Pulse Production Manual published by the Saskatchewan Pulse Growers (www.saskpulse.com).

Soybean

Main Characteristics of Varieties

Variety	Type¹	Years Tested	Yield (% 23-10RY)	Corn Heat Units ²	Days to Maturity³	Seed Size (# seeds /lb)	Hilum Colour⁴
23-10RY	RR2	2	100	2325	124	3128	BL
29002RR	RR1	2	88	2375	121	3400	Υ
900Y61 🛟	RR1	2	102	2425	127	2608	BR
900Y71 🕲	RR1	2	109	2450	127	2935	IY
Bishop R2	RR2	2	90	2450	124	2987	IY
LS 002R23	RR2	2	113	2375	125	2719	BL
McLeod R2	RR2	2	117	2375	125	2473	BL
NSC Libau RR2Y	RR2	2	103	2375	127	2800	BL
NSC Reston RR2Y	RR2	2	102	2325	123	2653	BL
NSC Tilston RR2Y	RR2	2	108	2375	125	2965	BL
Pekko R2	RR2	2	98	2325	124	2389	BL
Sampsa R2	RR2	2	101	2425	128	2092	IB
TH 32004R2Y	RR2	2	117	2425	126	3400	BL
TH 33003R2Y	RR2	2	107	2400	124	3200	BR
Vito R2	RR2	2	99	2350	125	3160	GR

¹ All varieties in this table are either Roundup Ready 1 or Genuity Roundup Ready 2 Yield™

Additional Information

Data are derived from the Western Canada soybean variety trial co-ordinated by Manitoba Agriculture, Food and Rural Initiatives. Test sites include Saskatoon, Floral, Yorkton, Redvers, Outlook (dryland and irrigated), and Rosthern in SK; Bow Island (dryland and irrigated) in AB; Melita, Carberry (dry and irrigated), Hamiota, Roblin, and Boissevain in MB. Two year mean yield of the check variety **23-10RY** was 41 bushels/acre. Typical on-farm yields are 25-30 bu/acre. For effective nodulation and nitrogen fixation, soybean must be inoculated with a *Bradyrhizobium japonicum* bacterial inoculant, since this bacteria is not native to western Canadian soils.

² Ascochyta Blight at pod filling period:0-9 scale; 0 = no symptom; 9 = plants are completely blighted. Scores 4-6 are considered fair.

³ Seed shape: Ro = Round; RH = Ram-head; P = plump; A = angular

⁴ Seed or seed coat colour: B = beige; LT = light tan; T = tan.

² Corn Heat Unit ratings are assigned by individual companies to assist growers select varieties suitable for their area; Days to Maturity is also an important indicator.

³ Average from 2012 and 2013. Longer season varieties did not fully mature at all sites. Cold growing seasons result in delayed maturity.

⁴ Hilum is the point where the seed attaches to the pod. BR = Brown, Y = Yellow, IY = Imperfect Yellow, IB = Imperfect Black, BL = Black, GR = Grey

Dry BeanMain Characteristics of Varieties

Variety	Туре	Years	(%	Yield CDC Pintio	um)	Days to	Maturity	•	Seed Weight	Growth
variety	Турс	Tested ¹	Irrigation	Area 2	Area 3	Flower	Rating ²	Clearance ³	(g/1000)	Habit⁴
CDC Pintium	pinto	12	100	100	100	50	Е	85	350	I
Island	pinto	6	117	111	100	55	М	79	355	II
Mariah 🚳	pinto	4	112	113	94	55	L	82	293	II
CDC Marmot	pinto	4	109	120	115	50	Е	80	367	1
Winchester	pinto	5	116	111	109	52	М	82	352	П
Winmor	pinto	6	118	104	100	55	M	72	350	II
CDC WM-2 🕲	pinto	7	114	108	104	52	Е	79	365	Ш
Envoy	navy	12	80	90	84	53	М	77	184	1
Lightning	navy	7	109	95	90	60	L	85	175	II
Skyline 🕲	navy	5	74	95	92	57	L	80	163	1
OAC Spark	navy	5	86	100	101	55	L	81	163	- 1
AC Polaris	great northern	7	97	102	95	52	L	70	310	III
AC Redbond	small red	8	98	103	99	51	М	65	290	Ш
CDC Blackcomb	black	6	113	99	94	56	M	85	167	II
Carman Black	black	5	125	115	112	59	М	88	180	П
CDC Jet	black	12	94	96	92	58	L	85	170	II
AC Black Diamond	shiny black	7	102	94	94	54	М	70	250	II
CDC Sol 🛞	yellow	6	102	93	85	55	L	78	399	I

¹ Co-op and regional trials grown in narrow rows. Direct comparisons to **CDC Pintium** since 2002.

Faba Bean

Main Characteristics of Varieties

Variety	Years Tested	Yield (% CDC Fatima)	Maturity (days)	Seed Weight (g/1000)
Coloured Flower				
CDC Fatima	8	100	105	520
CDC Blitz	6	101	109	410
FB9-4	5	96	104	680
Florent	4	112	107	660
CDC SSNS-1	8	90	105	335
Taboar 🕲	4	96	107	480
White Flower				
Snowbird 🙆	8	104	104	495
Imposa 🙆	4	110	107	695
CDC Snowdrop	5	88	104	335
Tobasco 🛞	5	101	106	530

Additional Information

Faba bean regional trials began in 2006 to accommodate growing interest in this crop as a nitrogen-fixing, high protein food and feed grain in moist areas. White-flowered types are zero tannin. All coloured flower types have seed coats that contain tannins and may be suitable for export food markets if seed size and quality match customer demand. Maturity ratings are based on days until swathing, but will vary depending on seeding date.

² Maturity ratings based on E = 100 days; L = 110 days for May 20 planting to swathing maturity. See page 2 for more information. ³ Pod clearance: percentage of pods that completely clear the cutterbar at time of swathing (~4 cm).

⁴ Growth habit: I = Determinate bush; II = Indeterminate bush; III = Indeterminate vine.

Flax

Main Characteristics of Varieties

.,	Years	(%	Yield ¹ CDC Bethu	ne)	Relative	0 10:	Resistance To			
Variety	Tested	Area 1&2	Area 3&4	Irrigation	Maturity ²	Seed Size	Lodging	Powdery Mildew ³	Fusarium Wilt³	
CDC Bethune 🕲	10	100	100	100	L	М	G	MR	MR	
CDC Glas 🗘	4	104	106	95	L	M	G	MR	MR	
Hanley 🚳	4	90	90	93	М	М	G	MR	R	
Lightning	6	92	92	93	L	M	G	MR	R	
Prairie Blue 🕲	4	99	92	97	L	S	VG	MR	MR	
Prairie Grande 🛞	6	92	94	92	M	M	VG	MR	MR	
Prairie Thunder 🛞	8	95	95	98	M	M	VG	MR	R	
CDC Neela 🚯	4	103	106	94	L	M	G	MR	MR	
CDC Sanctuary 🚳	6	106	99	97	L	М	F	MR	MR	
CDC Sorrel 🕲	8	100	101	92	L	L	G	MR	MR	
Taurus 🚳	6	94	99	94	M	М	G	R	MR	
Vimy	10	94	90	85	M	L	Р	MS	MR	
AC Watson	6	88	93	92	М	М	G	R	MR	

¹ Data from Regional and Coop yield trials.

Additional Information

All variety descriptions other than yield are based on data from the Flax Cooperative Trials in the Prairie Provinces. All varieties are immune to rust.

Frozen flax straw should be analyzed by a feed testing laboratory to determine that it is free of prussic acid before using it as a livestock feed. The flax industry is encouraging all flax producers to replace their existing seed stocks for the 2014 season so that all trace of Triffid can be removed from the grain supply. During the 2014 season, flax producers are encourage to deliver all previous seed stocks and grain inventory to the elevator system to minimize the chance of cross contamination of new flax supplies with old inventory.

Reboot Your Flax Seed in 2014!

By Venkata Vakulabharanam, Provincial Specialist - Oilseed Crops

Since 2009, the flax industry has been working hard to keep the European Union (EU) market open for Canadian flax. Over the last three years, the amount of Triffid contamination in our flax seed stocks and commercial production has decreased dramatically. Significant and consistent decrease was seen in our pedigreed flax seed, which showed 'zero' positive samples for Triffid in testing conducted for three years in a row, including 2013/2014 samples to date. Farm grain and farm saved seed are consistently showing about three per cent of triffid contamination. As the current tolerance limit to access the EU market is still effectively zero, planting 'Triffid-free' seed is still the key!

The flax breeder at the Crop Development Centre reconstituted their two popular flax varieties CDC Bethune, CDC Sorrel and two new varieties CDC Sanctuary and CDC Glas. Reconstitution of a variety is a very laborious process where the breeder tests each and every plant in the greenhouse for Triffid contamination and only seed from negatively tested plants is pooled to make Breeder's seed for that variety. These reconstituted breeder seed lots were supplied to SeCan. This pedigreed seed is grown under a very stringent agreement in 2012 and 2013.

During the summer of 2013, SeCan tried to

rename two old CDC flax varieties but were not successful due to Plant Breeders' Rights limitations. However, seed growers with reconstituted seed are provided with a Re-constituted Flax Seed Certificate for authenticity.

Recommendation to growers:

- Flax growers should plant only certified seed of both re-constituted varieties or other varieties during 2014.
- Growers are asked to verify 'Reconstituted Flax Seed Certificate' if purchasing certified seed of CDC Bethune, CDC Sorrel, CDC Sanctuary and CDC Glas.
- New cultivars CDC Sanctuary (106 per

cent in brown soil zone) and CDC Glas (103 per cent in Western Canada) gave better yield than CDC Bethune in co-op trials

 ...So, it is a good opportunity to try new varieties on your farm while eliminating Triffid contamination.

The Flax industry is providing a great opportunity to all flax growers to start with clean seed again - A well thought out response to restore our flax markets. Be a part of the industry awareness campaign 'Reboot Canada's Flax Industry'.

2009 - 2012 Test Results										
Class and Testing Method	% of CDC Triffid Positive Samples 2009/2010	% of CDC Triffid Positive Samples 2010/2011	% of CDC Triffid Positive Samples 2011/2012	% of CDC Triffid Positive Samples 2012/2013						
Grain (1 X 60 test)	10%	test not used	test not used	test not used						
Grain (4 X 60 test)	test not used	7%	3-5%	4%						
Farm saved seed (4 X 60 test)	14%	4%	4-5%	3%						
Pedigreed seed (4 X 60 test)	7%	2%	0%	0%						

² Relative maturity: The relative maturity of the check, CDC Bethune, is L (on average 101 days from seeding to swathing ripeness).

³ Resistance Scale: MS = Moderately Susceptible, MR = Moderately Resistant, R = Resistant.

Mustard

Main Characteristics of Varieties¹

Type and Variety	Years Tested	Yield	Plant Height (cm)	Glucosinolate (μmol/g seed)	Mucilage ² (cS*ml/g seed)	Volatile oil³ (μmol/g seed)	Fixed Oil (% seed)	Protein (% Seed)	Seed Weight (g/1000)	Maturity (days)
Yellow Mustard	Yiel	d (% AC F	Pennant)							
AC Pennant	14	100	96	148	44.7	n/a	29.5	34.3	5.7	92
Andante	14	101	102	145	55.7	n/a	28.4	35.1	6.0	93
Brown Mustard	Yiel	d (% Duc	ness)							
Duchess	14	100	113	n/a	n/a	9.5	38.1	28.7	2.7	92
Amigo ⁴	5	92	113	n/a	n/a	13.6	34.7	30.3	2.8	94
Centennial Brown	14	101	117	n/a	n/a	10.3	36.3	30.1	3.1	92
Oriental Mustard	Yiel	d (% Cutl	ass)							
Cutlass	14	100	115	n/a	n/a	11.6	41.0	29.1	2.8	91
Forge	14	97	125	n/a	n/a	12.2	38.9	29.6	2.6	92
AC Vulcan	14	98	116	n/a	n/a	12.4	40.6	29.5	2.9	91

¹ Data from 1999-2012 Co-operative Test, Yield % of check

Additional Information

Three types of mustard are grown in western Canada: yellow (*Sinapis alba*), and brown and oriental (*Brassica juncea*). Mustard is typically grown under contract, where the contractor specifies the variety to be grown to meet industry specifications for product quality. All mustard varieties have good resistance to blackleg disease and mature, on average, in 91 to 94 days.

The two yellow mustard varieties have similar yield. A unique feature of yellow mustard is high mucilage content. Mucilage is valued by the mustard industry as a stabilizer in prepared food products. **Andante** has higher mucilage content. High protein content is of importance for yellow mustard flour as an ingredient in meat products. **Andante** has higher protein content than **AC Pennant**.

Brown mustard is grown primarily for the Dijon mustard market. **Centennial Brown** has significantly higher allyl glucosinolate and protein contents, and is also larger seeded than **Duchess**. **Centennial Brown** and **Duchess** are highly susceptible to white rust disease (staghead). **Amigo** is the first brown mustard variety highly resistant to white rust race 2a, but susceptible to race 2v. **Amigo** has higher allyl glucosinolate content than **Centennial Brown** and **Duchess**. Its seed weight is somewhat lower than **Centennial Brown**.

Three varieties of oriental mustard (yellow-seeded) are available for production. **Cutlass** is the highest yielding variety. **AC Vulcan** and **Forge** have higher allyl glucosinolate content and greater protein content than **Cutlass**. **Forge** has significantly lower fixed oil content and smaller seed size than **Cutlass**.

 $^{^{\}rm 2}$ Mucilage in yellow mustard is a measurement of viscosity of aqueous extracts from seed

³ Volatile oil = allyl glucosinolate

⁴ Data from 2008-2012 Co-operative Mustard Test

Canola (Small Scale Trials)

Main Characteristics of Varieties

Mariaka	Distributor	Growir	Yield (b ng Seasor	u/ac) n Zone¹			aturity (da ng Seaso			Height (cn ng Seaso	n) n Zone	Blackleg
Variety	Distributor	Long (2)	Mid (14)	Short (4)	Avg.	Long	Mid	Short	Long	Mid	Short	Rating
Clearfield												
5525 CL	BrettYoung	86	69	75	72	94	100	108	130	115	125	R
VR 9560 CL ²	Viterra	87	72	80	75	93	102	110	130	123	125	R
LSD ³		13	9	19								
Liberty Link												
5440	Bayer CropScience	100	75	90	82	94	99	108	128	120	128	R
L252	Bayer CropScience	112	79	96	87	95	101	109	128	120	123	R
L261	Bayer CropScience	101	76	89	82	93	102	110	150	130	138	R
L130	Bayer CropScience	94	72	89	79	9	99	107	130	120	125	R
L154	Bayer CropScience	103	74	87	81	93	99	108	130	120	125	R
L159	Bayer CropScience	98	77	90	82	95	100	109	138	125	130	R
LSD ³		14	7	9								
Roundup Read	ly											
1990	CANTERRA SEEDS	99	74	82	79	92	100	109	126	114	115	R
6044 RR	BrettYoung	97	70	80	76	95	99	107	127	112	113	R
6050 RR	BrettYoung	91	70	77	74	93	99	107	117	110	118	R
6060 RR	BrettYoung	98	72	81	77	97	103	110	134	119	125	R
73-15 RR	DEKALB			75	75			105			110	
73-45 RR	DEKALB	87	68	79	73	92	98	106	110	105	110	R
73-75 RR	DEKALB	101	72	75	77	92	99	106	121	111	110	R
74-44 BL	DEKALB	94	72	81	77	92	98	107	120	107	115	R
74-47 CR	DEKALB	102	70	81	77	96	101	108	128	114	123	R
74-54 RR	DEKALB	95	71	81	76	92	99	107	119	113	118	R
SY4114	Syngenta Canada	101	72	75	76	92	99	106	120	110	110	R
SY4135	Syngenta Canada	100	72	81	78	92	99	107	122	110	115	R
V12-1 ³	Cargill - VICTORY Canola	93	74	86	79	93	100	109	134	117	120	R
V12-2 ³	Cargill - VICTORY Canola	93	69	76	74	96	101	109	128	113	118	R
VR 9562 GC	Crop Production Services	98	73	82	78	94	99	107	133	119	130	R
VT 530 G	Crop Production Services	96	73	83	78	93	100	108	132	119	123	MR
LSD⁴		11	7	12								

¹ The number of sites tested is included in brackets.

Additional Information

Brassica napus (Argentine Canola)

Argentine varieties mature two weeks later than Polish varieties and are therefore better suited to the mid and long season growing areas of Saskatchewan. Blackleg disease, which is now widespread in Saskatchewan, can cause severe yield losses in varieties that are susceptible. Argentine varieties are susceptible to seed shattering when left standing at full maturity. Later maturing varieties tend to produce higher levels of green seed under wet and cool conditions at harvest, which can cause substantial grade reductions. The control of herbicide tolerant canola volunteers requires good agronomic practices, such as proper crop and herbicide rotations.

Brassica rapa (Polish Canola)

Polish varieties mature approximately two

weeks earlier than Argentine varieties and are less likely to produce green seed. Polish varieties are more heat and drought tolerant than the Argentine type. They are also more shatter resistant than Argentine varieties and are therefore well suited to straight combining. All current Polish varieties have poor resistance to blackleg, but blackleg is less of a threat in Polish canola because of its early maturity, which tends to reduce the impact of the disease on seed yields. Three new synthetic Polish varieties are Early One, ACS-C29 and Synergy. All three varieties yield significantly more than their open-pollinated counterparts like AC Sunbeam. Early One and ACS-C29 are available through Mastin Seeds, while Synergy and AC Sunbeam are available through Se-Can. (Source: AAFC, Saskatoon)

Brassica juncea Canola

Canola quality *Brassica juncea* is a class of canola that is especially well adapted to areas where hot, dry conditions are common. It has very good resistance to blackleg and exhibits better heat and drought tolerance than other *Brassica napus* canola. All production is contracted.

XCEED Canola, available from Proven Seed, Crop Production Services in 2014, is suited to the Brown and Dark Brown growing season zones. It is compatible with the Clearfield Production System (Source: CPS).

² Specialty oil profile and available for premium pricing.

³ Higher oil content and may be eligible for pricing premiums.

⁴ LSD = least significant yield difference (5% level) within herbicide system.

Canola (Large Scale Strip Trials)

Main Characteristics of Varieties

Variety	Gro	wing Season	Zone ¹	
	Long	Mid	Short	Average
Check				
73-75 RR (yield in bu/ac)	55	53	51	53
Liberty Link				
5440	100 (9)	102 (19)	107 (6)	102
L252	108 (7)	104 (16)	107 (5)	105
L261	107 (7)	103 (14)	107 (5)	105
L130	101 (16)	102 (30)	109 (10)	103
L154	100 (4)	105 (8)	102 (3)	103
L159	99 (2)	102 (6)	101 (2)	101
Roundup Ready				
1990	102 (1)	100 (16)	106 (6)	101
6060 RR	97 (4)	93 (7)	95 (1)	94
73-15 RR		104 (20)	106 (10)	104
73-45 RR	99 (13)	101 (40)	106 (12)	102
73-75 RR	100 (22)	100 (68)	100 (18)	100
74-44 BL	102 (18)	104 (50)	107 (16)	104
74-47 CR	98 (4)	98 (21)	97 (3)	98
74-54 RR	101 (14)	103 (42)	104 (12)	102
SY4114		102 (3)	99 (3)	100
SY4135		98 (3)	105 (3)	101
V12-1		99 (10)		99
V12-2		97 (7)		97
VT 530 G		104 (1)		104

Least Significant Difference

When comparing average zone yields for varieties in the small plot data, the least significant difference (LSD) is about 7 to 19 bu/ac. If variety A yielded 52 bu/ac. and variety B yielded 45 bu/ac., they would be considered statistically the same. This is based on a confidence level that significant differences would occur by chance less than 5% of the time. In the small plot design used, varieties were grouped by herbicide system, which means that the LSD shown strictly applies to comparisons between varieties of the same herbicide system.

More importantly, comparisons between varieties within the same herbicide system reveal only genetic differences, whereas variety comparisons between herbicide systems compare the net effect of both genetic and herbicide effects (weed control + crop tolerance).

Where can you get the Canola Performance Trial results? Results are available through an online interactive tool at www.canolaperformancetrials.ca. The interactive tool allows growers to explore many agronomic factors and to search for trial data in specific geographic areas near their farming operations. Details on management, operations and environmental data for each individual site are reported online. The online tool has an economic calculator that includes the costs associated with growing the selected variety to assist growers in determining potential profitability. Data is also available in booklet form that will be distributed through various publications and can be obtained from your local agri-retailer.

Sunflower

Main Characteristics of Varieties

Variety	Years Tested	Yield (% 63A21)	Average Maturity (days)	Harvest Moisture (%)
Oilseed				
63A21	4	100	113	19.1
2930	3	87	119	23.6
8N 270 ¹	4	89	118	27.3
7111 ¹	2	90	120	26.4
Oilseed EMSS (E	arly Maturing, Short Statur	re)		
63A21	14	100	113	19.1
AC Sierra	5	60	108	16.6

¹ Clearfield tolerant variety.

Additional Information

Sunflower requires 105-125 days to mature, depending on the cultivar and the growing season. Oilseed sunflower has been grown in the Dark Brown and Black Soil Zones in southeastern Saskatchewan. Harvest moisture is a good indication of how quickly these hybrids will be ready to combine in the field. The EMSS varieties are adapted to production in most areas of Saskatchewan. AC Sierra is open pollinated and not a hybrid.

The Saskatchewan Sunflower Committee has been conducting trials in Saskatchewan for the purpose of registration and demonstration since 1983. Sunflowers no longer require three years of yield testing to be sold in Saskatchewan. Saskatchewan Sunflower Committee will publish results from each year. For the complete data set please email or call Shannon Friesen with Saskatchewan Agriculture (shannon.friesen@gov.sk.ca or 306-848-2856).

Breeding Institutions and Seed Distributors of Varieties Listed in this Publication

Crop Kind, Class & Variety	Breeding Institution	Distributor	Crop Kind, Class & Variety	•	Distributor
ANARYSEED			Canada Western Amber Durur AC Avonlea @	n AAFC (Swift Current)	FP Genetics
DC Bastia	U of S - CDC	Public release U of S - CDC	Brigade 🕲	AAFC (Swift Current)	Proven Seed/CPS Canada
ntate	J. Joordans Zaadhandel BV	Hansen Seeds	AAC Current 🗘	AAFC (Swift Current)	Alliance Seed Corp.
et	U of Minnesota; U of S - CDC	Public release U of S - CDC	CDC Desire 😯	U of S - CDC	Syngenta Canada
C Maria	U of S - CDC	C. Special Crops	Enterprise 🛞	AAFC (Swift Current)	CANTERRA SEEDS
C Togo 🙆	U of S - CDC	CANTERRA SEEDS	Eurostar 🙆	AAFC (Swift Current)	SeCan Members
			CDC Fortitude	U of S - CDC	Proven Seed/CPS Canada
IEAT B. LO.			AC Navigator	AAFC (Swift Current)	Proven Seed/CPS Canada
nada Western Red Spring	11 (0 000	D 0 1/0D0 0 1	Strongfield @	AAFC (Swift Current)	SeCan Members
C Abound 🙆	U of S - CDC	Proven Seed/CPS Canada	Transcend	AAFC (Swift Current)	FP Genetics SeCan Members
C Alsask ⊚ ena ⊛	U of S - CDC	Proven Seed/CPS Canada SeCan Members	AAC Marchwell VB 🗘 AAC Raymore 🛟	AAFC (Swift Current) AAFC (Swift Current)	SeCan Members
ena 🐠 C Bailey 🚷	AAFC (Swift Current) AAFC (Swift Current)	CANTERRA SEEDS	CDC Verona 🕲	U of S - CDC	Alliance Seed Corp.
Barrie 🕲	AAFC (Swift Current)	SeCan Members	CDC Verona	U of S - CDC	Proven Seed/CPS Canada
C Brandon 🗘	AAFC (Swift Current)	SeCan Members	CDC VIVIA 🐷	0 01 0 - 000	1 Toveri Geed/Of G Carlada
berry @	AAFC (Swift Current)	SeCan Members	WINTER WHEAT		
dale 🗘	AAFC (Winnipeg)	Seed Depot	Accipiter 🛞	U of S - CDC	SeCan Members
C Elie 🗘	AAFC (Swift Current)	Alliance Seed Corp.	AC Bellatrix	AAFC (Lethbridge)	FP Genetics
Elsa 🕲	AAFC (Swift Current)	SeCan Members	Broadview @	AAFC (Lethbridge)	CANTERRA SEEDS
dstar VB 🕲	AAFC (Winnipeg)	SeCan Members	CDC Buteo	U of S - CDC	SeCan Members
nn 🛞	NDSU	CANTERRA SEEDS	CDC Clair	U of S - CDC	SeCan Members
C Go	U of S - CDC	Public release U of S - CDC	Emerson 🗘	AAFC (Lethbridge)	CANTERRA SEEDS
odeve VB 🕲	AAFC (Swift Current)	Alliance Seed Corp.	CDC Falcon	U of S - CDC	SeCan Members
vest 🕲	AAFC (Winnipeg)	FP Genetics	Flourish 🕲	AAFC (Lethbridge)	SeCan Members
C Imagine 🙆	U of S - CDC	Proven Seed/CPS Canada	AAC Gateway 🔾	AAFC (Lethbridge)	Seed Depot
nity 🕲	AAFC (Swift Current)	CANTERRA SEEDS	CDC Harrier	U of S - CDC	SeCan Members
Intrepid @	AAFC (Swift Current)	CANTERRA SEEDS	CDC Kestrel	U of S - CDC	SeCan Members
NE 🕲	AAFC (Winnipeg)	SeCan Members	McClintock @	U of M (Winnipeg)	CANTERRA SEEDS
C Kernen 🙆	U of S - CDC	CANTERRA SEEDS	Moats 😯	U of S - CDC	SeCan Members
an 💩	AAFC (Swift Current)	SeCan Members	CDC Osprey	U of S - CDC	CANTERRA SEEDS
C VR Morris 🐧	U of S - CDC	Proven Seed/CPS Canada	Peregrine 🙆	U of S - CDC	SeCan Members
chmore 🕲	AAFC (Swift Current)	FP Genetics	Pintail 😯	AARD (Lacombe)	Mastin Seeds
C Osler	U of S - CDC	Public release U of S - CDC	CDC Ptarmigan	U of S - CDC	Western Ag
C Plentiful 😘	U of S - CDC	FP Genetics	Radiant @	AAFC (Lethbridge)	CANTERRA SEEDS
Redwater 😯	AAFC (Winnipeg)	SeCan Members	CDC Raptor	U of S - CDC	SeCan Members
aw VB ⊚	AAFC (Winnipeg)	SeCan Members	Sunrise	U of S - CDC	Western Ag
C Stanley 🕲	U of S - CDC	Proven Seed/CPS Canada	Swainson	U of S - CDC	Public Release U of S - CI
ttler 🙆	AAFC (Swift Current)	SeCan Members			
133 🐧	Syngenta Seeds Canada Inc.	Syngenta Canada	WINTER RYE		
C Thrive 🙆	U of S - CDC	Proven Seed/CPS Canada	Hazlet	AAFC (Swift Current)	SeCan Members
ty VB 🙆	AAFC (Winnipeg)	SeCan Members	Prima	AAFC (Swift Current)	SeCan Members
C Utmost VB 🕲	U of S - CDC	FP Genetics	AC Remington	AAFC (Swift Current)	CANTERRA SEEDS
sper VB ⊚	AAFC (Winnipeg)	SeCan Members	AC Rifle	AAFC (Swift Current)	SeCan Members
skada 🙆	AAFC (Winnipeg)	SeCan Members			
859 CL 🕲	Syngenta Seeds Canada Inc.	Richardson Intl	TRITICALE		
2HR 🙆	Syngenta Seeds Canada Inc.	Proven Seed/CPS Canada	Bobcat	AAFRD (Lacombe)	Progressive Seeds
3HR ⊚	Syngenta Seeds Canada Inc.	Proven Seed/CPS Canada	Brevis	AAFC (Swift Current)	Wagon Wheel Seed Corp
04HR CL ⊚	Syngenta Seeds Canada Inc.	Proven Seed/CPS Canada	Bumper 🙆	AAFC (Swift Current)	SeCan Members
5HR CL 😯	Syngenta Seeds Canada, Inc.	Proven Seed/CPS Canada	Bunker 🙆	AAFRD (Lacombe)	FP Genetics
			AC Certa	AAFC (Swift Current)	Progressive Seeds
nada Prairie Spring Red			Luoma 🚳	AAFRD (Lacombe)	Corns Brothers Farms
nquer VB 🕲	AAFC (Winnipeg)	CANTERRA SEEDS	Metzger	AAFRD (Lacombe)	Haney Farm Ltd.
Crystal 🛞	AAFC (Swift Current)	SeCan Members	Pika	AAFRD (Lacombe)	Progressive Seeds
hant VB 💩	AAFC (Winnipeg)	FP Genetics	Pronghorn	AAFRD (Lacombe)	Progressive Seeds
C Ryley 🐧	AAFC (Swift Current)	SeCan Members	Sunray	AAFC (Lethbridge)	SeedNet Inc.
985 🕲	Syngenta Seeds Canada Inc.	Proven Seed/ Richardson Intl.	Taza 💩	AAFRD (Lacombe)	Solick Seeds
0PR ⊚	Syngenta Seeds Canada Inc.	Proven Seed/CPS Canada	Tyndal ⊚	AAFRD (Lacombe)	SeCan Members
2PR 🙆	Syngenta Seeds Canada Inc.	Proven Seed/CPS Canada	AC Ultima	AAFC (Swift Current)	FP Genetics
ada Western Hard White S	nrina		FORAGE BARLEY		
		Alliance Seed Corp		U of S - CDC	SeCan Mambara
Clceberg 😯	AAFC (Winnipeg)	Alliance Seed Corp. FP Genetics	CDC Cowboy @	AAFC (Brandon)	SeCan Members
wbird 🚳	AAFC (Winnipeg)	SeCan Members	Desperado 🕲 Dillon	Western Plant Breeders Inc.	Alliance Seed Corporation Proven Seed/CPS Canada
wstar 🕲	AAFC (Winnipeg)	SeCan Members SeCan Members		U of S - CDC	SeCan Members
C Whitefox 😯	AAFC (Winnipeg)		CDC Maverick AC Ranger	AAFC (Brandon)	FP Genetics
itehawk ⊚ C Whitewood ۞	AAFC (Winnipeg) U of S - CDC	SeCan Members SeCan Members	AC Ranger Stockford ⊚	Westbred, LLC.	Proven Seed/CPS Canada
ada Western Soft White Sp			MALTING BARLEY	·	
Andrew	AAFC (Lethbridge)	SeCan Members	Two-Row		
C Chiffon 😯	AAFC (Lethbridge)	Seed Net	Bentley 🕲	AARD (Lacombe)	CANTERRA SEEDS
lash 🔌	AAFC (Lethbridge)	SeCan Members	Cerveza 🕲	AAFC (Brandon)	Mastin Seeds Ltd.
	. •,		CDC Copeland (a)	U of S - CDC	SeCan Members
ada Western Extra Strong			Harrington	U of S - CDC	SeCan Members
nside	AAFC (Winnipeg)	David W. Faurschou - MB	CDC Kendall 💩	U of S - CDC	Proven Seed/CPS Canada
ncross VB	AAFC (Winnipeg)	David W. Faurschou - MB	CDC Kindersley 🙆	U of S - CDC	SeCan Members
	- (······		CDC Landis 🙆	U of S - CDC	Fedoruk Seeds Ltd.
ada Western General Purp	ose		Major 💩	AAFC (Brandon)	Proven Seed/CPS Canada
C Innova 🗘	AAFC (Lethbridge)	Alliance Seed Corp.	CDC Meredith (s)	U of S - CDC	SeCan Members
C NRG003 💩	U of S - CDC	CANTERRA SEEDS	Merit 57 🔌	Busch Ag Res. Inc.	CANTERRA SEEDS
G010 🕲	AAFC (Swift Current)	CANTERRA SEEDS	AC Metcalfe (6)	AAFC (Brandon)	SeCan Members
teur	Wiersum Plant Breeding	SeCan Members	Newdale @	AAFC (Brandon)	FP Genetics
	AAFC (Lethbridge)	FP Genetics	CDC PolarStar (s)	U of S - CDC/Sapporo/PML	CANTERRA SEEDS
Proclaim 😘	, v u O (reuminañe)	i i Odlidilož	ODO I Gial Stat @	O OI O - ODO/Oapp0IO/PIVIL	OULT FIXING SEEDS
C Proclaim 🗘			AAC Synergy 😯	AAFC (Brandon)	Syngenta Canada Inc.

Crop Kind, Class & Variety	/ Breeding Institution	Distributor	Crop Kind, Class & Variety	y Breeding Institution	Distributor
MALTING BARLEY (CONT'D)			OAT (CONT'D)		
Six-Row	11 (0 000		Annual Forage Varieties	II (0 0D0	ED 0
CDC Anderson CDC Battleford	U of S - CDC U of S - CDC	SeCan Members	CDC Baler	U of S - CDC U of S - CDC	FP Genetics SeCan Members
Celebration (s)	Busch Ag Res. Inc.	SeCan Members CANTERRA SEEDS	CDC Haymaker 😚 Murphy 敛	AAFC (Lacombe)	SeCan Members
CDC Clyde @	U of S - CDC	Proven Seed/CPS Canada	Marphy &	AAI-C (Lacollibe)	Secan Members
Innovation (6)	Bush Ag. Res. Inc.	CANTERRA SEEDS	FLAX		
Lacey	U of Minnesota	Alliance Seed Corp.	CDC Bethune 🕲	U of S - CDC	SeCan Members
Legacy (s)	Busch Ag Res. Inc.	Proven Seed/FP Genetics	CDC Glas ()	U of S - CDC	SeCan Members
CDC Mayfair 💩	U of S - CDC	CANTERRA SEEDS	Hanley 🕲	AAFC (Morden)	SeCan Members
Stellar-ND 🚷	NDSU	CANTERRA SEEDS	Lightning (a)	AAFC (Morden)	CANTERRA SEEDS
Tradition	Busch Ag Res. Inc.	Proven Seed/FP Genetics	Prairie Blue 🕲	AAFC (Morden)	SeCan Members
			Prairie Grande 🕲	AAFC (Morden)	SeCan Members
HULLED - FEED BARLEY			Prairie Thunder 💩	AAFC (Morden)	CANTERRA SEEDS
Two-Row			CDC Neela 😯	U of S - CDC	CANTERRA SEEDS
CDC Austenson @	U of S - CDC	SeCan Members	CDC Sanctuary @	U of S - CDC	SeCan Members
CDC Bold	U of S - CDC	CANTERRA SEEDS	CDC Sorrel @	U of S - CDC	SeCan Members
Brahma 🗘	Westbred, LLC.	Proven Seed/CPS Canada	Taurus 🙆	Limagrain Nederland	FP Genetics
Busby ⊚	AARD (Lacombe)	Mastin Seeds Ltd.	Vimy	U of S - CDC	SeCan Members
Canmore 🗘	AARD (Lacombe)	CANTERRA SEEDS	AC Watson	AAFC (Morden)	Proven Seed/CPS Canada
Champion 🛞	Westbred, LLC.	Proven Seed/CPS Canada			
CDC Coalition 🕲	U of S - CDC	CANTERRA SEEDS	SUNFLOWER		
CDC Cowboy @	U of S - CDC	SeCan Members	AC Sierra	AAFC (Saskatoon)	AAFC (Indian Head)
CDC Dolly	U of S - CDC	SeCan Members	63A21	Pioneer Hi-Bred	Pioneer Hi-Bred
Gadsby 🙆	AARD (Lacombe)	SeCan Members	2930	Syngenta	Syngenta
CDC Helgason 💩	U of S - CDC	SeCan Members	8N 270	Mycogen Seeds	Mycogen Seeds
CDC Maverick 😯	U of S - CDC	SeCan Members	7111	Syngenta	Syngenta
McLeod @	Westbred, LLC.	Proven Seed/CPS Canada	MUCTADD		
CDC Mindon 💩	U of S - CDC	SeCan Members	MUSTARD		
CDC Trey 🕲	U of S - CDC	FP Genetics	Brown	AAFC (Saskatoon)	Canadian Mustard Assoc.
Xena Six Bour	Western Plant Breeders Inc.	Proven Seed/CPS Canada	Amigo	, ,	
Six-Row Amisk 🔀	AARD (Lacomba)	SeCan Members	Centennial Brown Duchess	AAFC (Saskatoon) Colman's of Norwich	Canadian Mustard Assoc. Proven Seed/CPS Canada
Arnisk ₩ Breton ۞	AARD (Lacombe) AARD (Lacombe)	CANTERRA SEEDS	Duchess	Colman's of Norwich	Proven Seed/CPS Canada
	AARD (Lacombe)	SeCan Members	Oriental		
Chigwell ⊚ Muskwa €	AARD (Lacombe)	SeedNet Inc.	Cutlass	AAFC (Saskatoon)	Canadian Mustard Assoc.
AC Rosser 🛞	AAFC (Brandon)	SeCan Members	Forge	Colman's of Norwich	Proven Seed/CPS Canada
Sundre @	AARD (Lacombe)	Mastin Seeds Ltd.	AC Vulcan	AAFC (Saskatoon)	Canadian Mustard Assoc.
oundle @	AARD (Lacombe)	Mastin Geeds Etd.	AC Vulcari	AAI O (Gaskatoon)	Carladian Mustard Assoc.
HULLESS - FOOD, MALTING,	FEED BARLEY		Yellow		
CDC Alamo	U of S - CDC	Public release, U of S - CDC	Andante	AAFC (Saskatoon)	Canadian Mustard Assoc.
CDC Candle	U of S - CDC	Public release, U of S - CDC	AC Pennant	AAFC (Saskatoon)	Canadian Mustard Assoc.
CDC Carter @	U of S - CDC	SeCan Members			
CDC Clear 😯	U of S - CDC	TBA	SAFFLOWER		
CDC Fibar @	U of S - CDC	CANTERRA SEEDS	Saffire	AAFC (Lethbridge)	Jerry Kubic (AB)
-				A A E O (I . II I . I .)	
	U of S - CDC	CANTERRA SEEDS	AC Sunset	AAFC (Lethbridge)	Proven Seed/CPS Canada
CDC Hilose 💩 CDC Lophy-I	U of S - CDC	Public release, U of S - CDC		AAFC (Lethbridge)	Proven Seed/CPS Canada
CDC Hilose (a) CDC Lophy-I CDC McGwire (b)	U of S - CDC U of S - CDC	Public release, U of S - CDC SeCan Members	SOYBEAN	AAFC (Lethbridge)	
CDC Hilose (a) CDC Lophy-I CDC McGwire (a) Millhouse	U of S - CDC U of S - CDC AAFC (Brandon)	Public release, U of S - CDC SeCan Members AAFC	SOYBEAN 23-10RY	AAFC (Lethbridge)	Dekalb
CDC Hilose @ CDC Lophy-I CDC McGwire @ Millhouse CDC Rattan @	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS	SOYBEAN 23-10RY 29002RR	AAFC (Lethbridge)	Dekalb Quarry Seeds Ltd.
CDC Hilose (6) CDC Lophy-I CDC McGwire (6) Millhouse CDC Rattan (6) Roseland	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon)	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA	SOYBEAN 23-10RY 29002RR 900Y61 ©	AAFC (Lethbridge)	Dekalb Quarry Seeds Ltd. Dupont Pioneer
CDC Hilose (6) CDC Lophy-I CDC McGwire (6) Millhouse CDC Rattan (6) Roseland	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS	SOYBEAN 23-10RY 29002RR 900Y61 © 900Y71 ⊗	AAFC (Letnonage)	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer
CDC Hilose CDC Lophy-I CDC McGwire Millhouse CDC Rattan Roseland Taylor	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon)	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA	SOYBEAN 23-10RY 29002RR 900Y61 ♣ 900Y71 ♠ Bishop R2	AAFC (Lethonage)	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan
CDC Hilose (6) CDC Lophy-I CDC McGwire (6) Millhouse CDC Rattan (6) Roseland Taylor (6)	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon)	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA	SOYBEAN 23-10RY 29002RR 900Y61 © 900Y71 © Bishop R2 LS 002R23	AAFC (Lethonage)	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities
CDC Hilose (a) CDC Lophy-I CDC McGwire (a) Millhouse CDC Rattan (a) Roseland Taylor (a) OAT Hulled Varieties	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon)	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation	SOYBEAN 23-10RY 29002RR 900Y61	AAFU (Lethonage)	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan
CDC Hilose @ CDC Lophy-I CDC McGwire @ Millhouse CDC Rattan @ Roseland Taylor @ OAT Hulled Varieties SW Betania @	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon)	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation	SOYBEAN 23-10RY 29002RR 900Y61 900Y71 Bishop R2 LS 002R23 McLeod R2 NSC Libau RR2Y	AAFC (Lethonage)	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba
CDC Hillose (a) CDC Lophy-I CDC McGwire (a) Millhouse CDC Rattan (a) Roseland Taylor (b) OAT Hulled Varieties SW Betania (a) CDC Big Brown (b)	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) AAFC (Brandon)	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation	SOYBEAN 23-10RY 29002RR 900Y61 © 900Y71 © Bishop R2 LS 002R23 McLeod R2 NSC Libau RR2Y NSC Reston RR2Y	AAFC (Lethonage)	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba
CDC Hilose (CDC Lophy-I CDC Lophy-I CDC McGwire (CDC McGwire (CDC Mattan (CDC	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC U of S - CDC	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members	SOYBEAN 23-10RY 29002RR 900Y61 \$\mathref{G}\$ 900Y71 \$\otimes\$ Bishop R2 LS 002R23 McLeod R2 NSC Libau RR2Y NSC Reston RR2Y NSC Tilston RR2Y	AAFC (Lethonage)	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba
CDC Hilose (a) CDC Lophy-I CDC McGwire (b) Millhouse CDC Rattan (c) Roseland Taylor (c) OAT Hulled Varieties SW Betania (c) CDC Big Brown (c) CDC Boyer Bradley (c)	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC AAFC - ECORC	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members SeCan Members	SOYBEAN 23-10RY 29002RR 900Y61 900Y71 B Bishop R2 LS 002R23 McLeod R2 NSC Libau RR2Y NSC Reston RR2Y NSC Tiliston RR2Y Pekko R2	AAFC (Lethonage)	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba Brett-Young Seeds Ltd./Elite
CDC Hilose CDC Lophy-I CDC McGwire Millhouse CDC Rattan Roseland Taylor OAT Hulled Varieties SW Betania CDC Big Brown CDC Boyer Bradley CDC Dancer CDC DC CDC CDC CDC CDC CDC CDC CDC CD	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members SeCan Members FP Genetics / Cargill	SOYBEAN 23-10RY 29002RR 900Y61	AAFC (Lethonage)	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba RorthStar Genetics Manitoba Section Seeds Ltd./Elite Brett-Young Seeds Ltd./Elite
CDC Hilose (CDC Lophy-I CDC Lophy-I CDC McGwire (CDC McGwire (CDC Mattan (CDC	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC U of S - CDC AAFC - ECORC U of S - CDC	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members SeCan Members FP Genetics / Cargill Proven Seed/Mastin Seeds	SOYBEAN 23-10RY 29002RR 900Y61 © 900Y71 © Bishop R2 LS 002R23 McLeod R2 NSC Libau RR2Y NSC Reston RR2Y NSC Tilston RR2Y Pekko R2 Sampsa R2 TH 32004R2Y	AAFC (Lethonage)	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba Brett-Young Seeds Ltd./Elite Quarry Seeds Ltd./Elite
CDC Hilose © CDC Lophy-I CDC McGwire © Millhouse CDC Rattan © Roseland Taylor @ OAT Hulled Varieties SW Betania © CDC Big Brown @ CDC Boyer Bradley @ CDC Dancer © Derby HiFi ©	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members SeCan Members FP Genetics / Cargill Proven Seed/Mastin Seeds Seed Depot	SOYBEAN 23-10RY 29002RR 900Y61 900Y71 9 Bishop R2 LS 002R23 McLeod R2 NSC Libau RR2Y NSC Reston RR2Y NSC Tilston RR2Y Pekko R2 Sampsa R2 TH 32004R2Y TH 33003R2Y	AAFC (Lethonage)	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba Brett-Young Seeds Ltd./Elite Brett-Young Seeds Ltd./Elite Quarry Seeds Ltd. Quarry Seeds Ltd.
CDC Hilose @ CDC Lophy-I CDC McGwire @ Millihouse CDC Rattan @ Roseland Taylor @ OAT Hulled Varieties SW Betania @ CDC Big Brown @ CDC Boyer Bradley @ CDC Dancer @ Derby HiFi @ Jordan @	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members SeCan Members FP Genetics / Cargill Proven Seed/Mastin Seeds Seed Depot SeCan Members	SOYBEAN 23-10RY 29002RR 900Y61 © 900Y71 © Bishop R2 LS 002R23 McLeod R2 NSC Libau RR2Y NSC Reston RR2Y NSC Tilston RR2Y Pekko R2 Sampsa R2 TH 32004R2Y	AAFC (Lethonage)	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba Brett-Young Seeds Ltd./Elite Quarry Seeds Ltd./Elite
CDC Hilose CDC Lophy-I CDC McGwire Millhouse CDC Rattan Roseland Taylor OAT Hulled Varieties SW Betania CDC Big Brown CDC Boyer Bradley CDC Dancer Derby HiFi Jordan AAC Justice	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC AAFC - ECORC U of S - CDC NDSU AAFC (Winnipeg) AAFC (Winnipeg)	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members SeCan Members FP Genetics / Cargill Proven Seed/Mastin Seeds Seed Depot SeCan Members FP Genetics	SOYBEAN 23-10RY 29002RR 900Y61 © 900Y71 © Bishop R2 LS 002R23 McLeod R2 NSC Libau RR2Y NSC Reston RR2Y NSC Tilston RR2Y Pekko R2 Sampsa R2 TH 32004R2Y TH 33003R2Y Vito R2	AAFC (Letnonage)	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba Brett-Young Seeds Ltd./Elite Brett-Young Seeds Ltd./Elite Quarry Seeds Ltd. Quarry Seeds Ltd.
CDC Hillose CDC Lophy-I CDC McGwire Millhouse CDC Rattan Roseland Taylor OAT Hulled Varieties SW Betania CDC Big Brown CDC Boyer Bradley CDC Dancer Derby HiFi Jordan AAC Justice Leggett Leggett Leggett	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC AAFC (Brandon)	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members SeCan Members FP Genetics / Cargill Proven Seed/Mastin Seeds Seed Depot SeCan Members	SOYBEAN 23-10RY 29002RR 900Y61 900Y71 9 Bishop R2 LS 002R23 McLeod R2 NSC Libau RR2Y NSC Reston RR2Y NSC Tilston RR2Y Pekko R2 Sampsa R2 TH 32004R2Y TH 33003R2Y		Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba Brett-Young Seeds Ltd./Elite Brett-Young Seeds Ltd./Elite Quarry Seeds Ltd. Quarry Seeds Ltd.
CDC Hillose CDC Lophy-I CDC McGwire Millhouse CDC Rattan Roseland Taylor OAT Hulled Varieties SW Betania CDC Big Brown CDC Big Brown CDC Boyer Bradley CDC Dancer Derby HiFi Jordan AAC Justice Lu	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC AAFC - ECORC U of S - CDC NDSU AAFC (Winnipeg) AAFC (Winnipeg)	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members SeCan Members FP Genetics / Cargill Proven Seed/Mastin Seeds Seed Depot SeCan Members FP Genetics FP Genetics	SOYBEAN 23-10RY 29002RR 900Y61 \$\mathref{O}\$ 900Y71 \$\mathref{O}\$ Bishop R2 LS 002R23 McLeod R2 NSC Libau RR2Y NSC Reston RR2Y NSC Tilston RR2Y Pekko R2 Sampsa R2 TH 32004R2Y TH 33003R2Y Vito R2 DRY BEAN	AAFC (Lethbridge) U of S - CDC	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba Brett-Young Seeds Ltd./Elite Guarry Seeds Ltd. Quarry Seeds Ltd. NorthStar Genetics Manitoba
CDC Hilose CDC Lophy-I CDC McGwire Millhouse CDC Rattan Roseland Taylor OAT Hulled Varieties SW Betania CDC Big Brown CDC Boyer Bradley CDC Dancer Derby HilFi Jordan AAC Justice Lu CDC Minstrel	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC AAFC - ECORC U of S - CDC NDSU AAFC (Winnipeg) AAFC (Winnipeg) AAFC (Winnipeg) AAFC (Winnipeg) AAFC (Lacombe)	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members SeCan Members FP Genetics / Cargill Proven Seed/Mastin Seeds Seed Depot SeCan Members FP Genetics FP Genetics SeCan Members	SOYBEAN 23-10RY 29002RR 900Y71 9 900Y71 9 Bishop R2 LS 002R23 McLeod R2 NSC Libau RR2Y NSC Reston RR2Y NSC Tiliston RR2Y Pekko R2 Sampsa R2 TH 32004R2Y TH 33003R2Y Vito R2 DRY BEAN AC Black Diamond	AAFC (Lethbridge)	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba Brett-Young Seeds Ltd./Elite Brett-Young Seeds Ltd./Elite Quarry Seeds Ltd. Quarry Seeds Ltd. NorthStar Genetics Manitoba
CDC Hilose CDC Lophy-I CDC McGwire Millhouse CDC Rattan Roseland Taylor OAT Hulled Varieties SW Betania CDC Big Brown CDC Boyer Bradley CDC Dancer Derby HiFi Jordan AAC Justice Leggett Lu CDC Minstrel AC Morgan	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC AAFC - ECORC U of S - CDC U of S - CDC NDSU AAFC (Winnipeg) AAFC (Winnipeg) AAFC (Winnipeg) AAFC (Lacombe) U of S - CDC	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members SeCan Members FP Genetics / Cargill Proven Seed/Mastin Seeds Seed Depot SeCan Members FP Genetics FP Genetics FP Genetics SeCan Members FP Genetics FP Genetics FP Genetics FP Genetics	SOYBEAN 23-10RY 29002RR 900Y61 900Y71 BBishop R2 LS 002R23 McLeod R2 NSC Libau RR2Y NSC Tiliston RR2Y NSC Tiliston RR2Y Pekko R2 Sampsa R2 TH 32004R2Y TH 33003R2Y Vito R2 DRY BEAN AC Black Diamond CDC Blackcomb	AAFC (Lethbridge) U of S - CDC	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba Brett-Young Seeds Ltd./Elite Brett-Young Seeds Ltd./Elite Quarry Seeds Ltd. NorthStar Genetics Manitoba
CDC Hilose & CDC Lophy-I CDC McGwire & Millhouse CDC Rattan & Roseland Taylor & OAT Hulled Varieties SW Betania & CDC Big Brown & CDC Boyer Bradley & CDC Dancer & Derby HiFi & Jordan & AAC Justice & Leggett & Lu CDC Minstrel & AC Morgan CDC Minstrel & AC Morgan CDC MCGC AC Minstrel & AC Morgan CDC Morgan CDC MCGWire & CDC Morrison &	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC AAFC (Winnipeg) AAFC (Winnipeg) AAFC (Winnipeg) AAFC (Lacombe) U of S - CDC AAFC (Lacombe)	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members SeCan Members FP Genetics / Cargill Proven Seed/Mastin Seeds Seed Depot SeCan Members FP Genetics FP Genetics SeCan Members FP Genetics SeCan Members FP Genetics SeCan Members	SOYBEAN 23-10RY 29002RR 900Y61 © 900Y71 © Bishop R2 LS 002R23 McLeod R2 NSC Libau RR2Y NSC Reston RR2Y NSC Tilston RR2Y Pekko R2 Sampsa R2 TH 32004R2Y TH 33003R2Y Vito R2 DRY BEAN AC Black Diamond CDC Blackcomb Carman Black	AAFC (Lethbridge) U of S - CDC AAFC (Morden)	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba NorthStar Genetics Manitoba Brett-Young Seeds Ltd./Elite Quarry Seeds Ltd. Quarry Seeds Ltd. NorthStar Genetics Manitoba Viterra Inc. Sask. Pulse Growers CANTERRA SEEDS
CDC Hilose CDC Lophy-I CDC McGwire Millhouse CDC Rattan Roseland Taylor OAT Hulled Varieties SW Betania CDC Big Brown CDC Boyer Bradley CDC Dancer Derby HiFi Jordan AAC Justice Leggett Lu CDC Minstrel AC Morgan CDC Minstrel AC Morgan CDC Nasser	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC AAFC (Winnipeg) AAFC (Winnipeg) AAFC (Lacombe) U of S - CDC AAFC (Lacombe) U of S - CDC	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members SeCan Members FP Genetics / Cargill Proven Seed/Mastin Seeds Seed Depot SeCan Members FP Genetics FP Genetics FP Genetics SeCan Members CANTERRA SEEDS	SOYBEAN 23-10RY 29002RR 900Y71 900Y71 Bishop R2 LS 002R23 McLeod R2 NSC Libau RR2Y NSC Reston RR2Y NSC Tilston RR2Y Pekko R2 Sampsa R2 TH 32004R2Y TH 33003R2Y Vito R2 DRY BEAN AC Black Diamond CDC Blackcomb Carman Black Envoy	AAFC (Lethbridge) U of S - CDC AAFC (Morden) GenTec Seeds	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba Brett-Young Seeds Ltd./Elite Brett-Young Seeds Ltd./Elite Quarry Seeds Ltd. Quarry Seeds Ltd. Viterra Inc. Sask. Pulse Growers CANTERRA SEEDS Hensell District Co-op
CDC Hilose CDC Lophy-I CDC McGwire Millhouse CDC Rattan Roseland Taylor OAT Hulled Varieties SW Betania CDC Big Brown CDC Boyer Bradley CDC Dancer Derby Hilfi Jordan AAC Justice Leggett Lu CDC Minstrel AC Morgan CDC Morrison CDC Nasser CDC CDTC MCGWIRE CDC Morrison CDC Masser CDC ORT CDC Masser CDC Orin CDC Masser CDC CDT CDC Masser CDC CDT CDC Masser CDC Orrin CDC Masser CDC CDT CDC Masser CDC Orrin CDC Masser CDC CDT CDC Masser CDC Orrin CDC Masser CDC Masser CDC Orrin CDC Masser	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC NDSU AAFC (Winnipeg) AAFC (Winnipeg) AAFC (Lacombe) U of S - CDC AAFC (Lacombe) U of S - CDC U of S - CDC U of S - CDC	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members SeCan Members FP Genetics / Cargill Proven Seed/Mastin Seeds Seed Depot SeCan Members FP Genetics FP Genetics SeCan Members FP Genetics	SOYBEAN 23-10RY 29002RR 900Y71 9 900Y71 9 Bishop R2 LS 002R23 McLeod R2 NSC Libau RR2Y NSC Reston RR2Y NSC Tiliston RR2Y Pekko R2 Sampsa R2 TH 32004R2Y TH 33003R2Y Vito R2 DRY BEAN AC Black Diamond CDC Blackcomb Carman Black Envoy Island	AAFC (Lethbridge) U of S - CDC AAFC (Morden) GenTec Seeds AAFC (Lethbridge)	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba Brett-Young Seeds Ltd./Elite Brett-Young Seeds Ltd./Elite Quarry Seeds Ltd. Quarry Seeds Ltd. NorthStar Genetics Manitoba Viterra Inc. Sask. Pulse Growers CANTERRA SEEDS Hensell District Co-op Viterra Inc.
CDC Hilose CDC Lophy-I CDC McGwire Millhouse CDC Rattan Roseland Taylor OAT Hulled Varieties SW Betania CDC Big Brown CDC Boyer Bradley CDC Dancer Derby HiFi Jordan AAC Justice Lu CDC Minstrel AC Morgan CDC Morrison CDC Masser CDC Morrison CDC CDC CDC CDC CDC CDC CDC CDC CDC C	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members SeCan Members FP Genetics / Cargill Proven Seed/Mastin Seeds Seed Depot SeCan Members FP Genetics FP Genetics FP Genetics FP Genetics SeCan Members FP Genetics SeCan Members FP Genetics SeCan Members FP Genetics SeCan Members CANTERRA SEEDS T & L Seeds FP Genetics / Cargill	SOYBEAN 23-10RY 29002RR 900Y61 ♥ 900Y71 ⊗ Bishop R2 LS 002R23 McLeod R2 NSC Libau RR2Y NSC Reston RR2Y NSC Tilston RR2Y Pekko R2 Sampsa R2 TH 32004R2Y TH 33003R2Y Vito R2 DRY BEAN AC Black Diamond CDC Blackcomb Carman Black Envoy Island CDC Jet	AAFC (Lethbridge) U of S - CDC AAFC (Morden) GenTec Seeds AAFC (Lethbridge) U of S - CDC	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba NorthStar Genetics Manitoba Brett-Young Seeds Ltd./Elite Guarry Seeds Ltd./Elite Quarry Seeds Ltd. NorthStar Genetics Manitoba Viterra Inc. Sask. Pulse Growers CANTERRA SEEDS Hensell District Co-op Viterra Inc. B&J Martens Seeds
CDC Hilose & CDC Lophy-I CDC McGwire & Millhouse CDC Rattan & Rosseland Taylor & OAT Hulled Varieties SW Betania & CDC Big Brown & CDC Big Brown & CDC Dancer & Derby HiFi & Jordan & AAC Justice C Leggett & Lu CDC Minstrel & AC Morgan CDC Masser CDC Nasser CDC Nasser CDC Orin & Pinnacle & Ronald & Ronald & Ronald & CDC CDC Lophy-I CDC Minstrel & CDC Morrison & CDC Corin & CDC Corin & CDC Minale & CDC Mina	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC OF - CDC U of S - CDC AAFC (Winnipeg)	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members SeCan Members FP Genetics / Cargill Proven Seed/Mastin Seeds Seed Depot SeCan Members FP Genetics FP Genetics SeCan Members CANTERRA SEEDS T & L Seeds FP Genetics / Cargill FP Genetics	SOYBEAN 23-10RY 29002RR 900Y61 \$\text{\te\	AAFC (Lethbridge) U of S - CDC AAFC (Morden) GenTec Seeds AAFC (Lethbridge) U of S - CDC U of Guelph Seminis Vegetable Seeds U of S - CDC	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba Brett-Young Seeds Ltd./Elite Quarry Seeds Ltd. Quarry Seeds Ltd. NorthStar Genetics Manitoba Viterra Inc. Sask. Pulse Growers CANTERRA SEEDS Hensell District Co-op Viterra Inc. B&J Martens Seeds Hensell District Co-op
CDC Hilose CDC Lophy-I CDC McGwire Millhouse CDC Rattan Roseland Taylor OAT Hulled Varieties SW Betania CDC Big Brown CDC Boyer Bradley CDC Dancer Derby Hilifi Jordan AAC Justice Lu CDC Minstrel AC Morgan CDC Minstrel AC Morgan CDC Nasser CDC Orin Pinnacle Ronald CDC CRuffian CDC CDC Nasser CDC CRuffian CDC CDC Ruffian CDC CDC Ruffian CDC Ruffian CDC CDC McGriffian CDC McGriffian CDC Ruffian CDC Ruffian CDC CDC McGriffian CDC CDC McGriffian CDC Ruffian CDC CDC McGriffian CDC	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC AAFC (Winnipeg) AAFC (Minnipeg) AAFC (Minnipeg)	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members SeCan Members FP Genetics / Cargill Proven Seed/Mastin Seeds Seed Depot SeCan Members FP Genetics FP Genetics SeCan Members CANTERRA SEEDS T & L Seeds FP Genetics / Cargill FP Genetics SeCan Members	SOYBEAN 23-10RY 29002RR 900Y61 \$\mathref{Q}\$ 900Y71 \$\otimes\$ Bishop R2 LS 002R23 McLeod R2 NSC Libau RR2Y NSC Reston RR2Y NSC Tilston RR2Y Pekko R2 Sampsa R2 TH 32004R2Y TH 33003R2Y Vito R2 DRY BEAN AC Black Diamond CDC Blackcomb Carman Black Envoy Island CDC Jet Lightning Mariah \$\otimes\$	AAFC (Lethbridge) U of S - CDC AAFC (Morden) GenTec Seeds AAFC (Lethbridge) U of S - CDC U of Guelph Seminis Vegetable Seeds	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba Brett-Young Seeds Ltd./Elite Brett-Young Seeds Ltd./Elite Quarry Seeds Ltd. Quarry Seeds Ltd. NorthStar Genetics Manitoba Viterra Inc. Sask. Pulse Growers CANTERRA SEEDS Hensell District Co-op Viterra Inc. B&J Martens Seeds Hensell District Co-op CANTERRA SEEDS
CDC Hilose CDC Lophy-I CDC McGwire Millhouse CDC Rattan Roseland Taylor OAT Hulled Varieties SW Betania CDC Big Brown CDC Boyer Bradley CDC Dancer Derby HiFi Jordan AAC Justice Leggett Lu CDC Minstrel AC Morgan CDC Morrison CDC Nasser CDC Orni Pinnacle Ronald CDC CDC Ruffian CDC CDC Ruffian CDC CDC Minstrel CDC CDC CDC CDC CDC CDC CDC CDC CDC C	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC AAFC (Winnipeg) AAFC (Winnipeg) AAFC (Lacombe) U of S - CDC AAFC (Lacombe) U of S - CDC U of S - CDC U of S - CDC AAFC (Winnipeg) AAFC (Winnipeg) AAFC (Winnipeg) AAFC (Winnipeg) AAFC (Winnipeg)	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members SeCan Members FP Genetics / Cargill Proven Seed/Mastin Seeds Seed Depot SeCan Members FP Genetics FP Genetics SeCan Members FP Genetics	SOYBEAN 23-10RY 29002RR 900Y71 9 900Y71 9 Bishop R2 LS 002R23 McLeod R2 NSC Libau RR2Y NSC Reston RR2Y NSC Tiliston RR2Y Pekko R2 Sampsa R2 TH 32004R2Y TH 33003R2Y Vito R2 DRY BEAN AC Black Diamond CDC Blackcomb Carman Black Envoy Island CDC Jet Lightning Mariah 9 CDC Marmot	AAFC (Lethbridge) U of S - CDC AAFC (Morden) GenTec Seeds AAFC (Lethbridge) U of S - CDC U of Guelph Seminis Vegetable Seeds U of S - CDC	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba Brett-Young Seeds Ltd./Elite Brett-Young Seeds Ltd./Elite Quarry Seeds Ltd. Quarry Seeds Ltd. NorthStar Genetics Manitoba Viterra Inc. Sask. Pulse Growers CANTERRA SEEDS Hensell District Co-op Viterra Inc. B&J Martens Seeds Hensell District Co-op CANTERRA SEEDS Sask. Pulse Growers
CDC Hilose CDC Lophy-I CDC McGwire Millhouse CDC Rattan Roseland Taylor OAT Hulled Varieties SW Betania CDC Big Brown CDC Big Brown CDC Boyer Bradley CDC Dancer Derby Hiffi Jordan AAC Justice Leggett Lu CDC Minstrel AC Morgan CDC Narser CDC Narser Pinnacle Roseland CDC Narser Pinnacle CDC Ruffian CDC Ruffian CDC Ruffian CDC Seabiscuit CDC SOCI CDC SOCI CDC SOCI CDC SOCI CDC SOCI CDC CDC CDC SOCI CDC SO	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC AAFC (Lacombe) U of S - CDC AAFC (Winnipeg) AAFC (Winnipeg) AAFC (Winnipeg) AAFC (Winnipeg) AAFC (Winnipeg) AAFC (Winnipeg) AAFC (COC U of S - CDC	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members SeCan Members FP Genetics / Cargill Proven Seed/Mastin Seeds Seed Depot SeCan Members FP Genetics FP Genetics SeCan Members FP Genetics CANTERRA SEEDS T & L Seeds FP Genetics SeCan Members FP Genetics CANTERRA SEEDS T & L Seeds Seed Depot	SOYBEAN 23-10RY 29002RR 900Y61 \$\text{\te\	AAFC (Lethbridge) U of S - CDC AAFC (Morden) GenTec Seeds AAFC (Lethbridge) U of S - CDC U of Guelph Seminis Vegetable Seeds U of S - CDC U of S - CDC	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba NorthStar Genetics Manitoba Brett-Young Seeds Ltd./Elite Prett-Young Seeds Ltd./Elite Quarry Seeds Ltd./Elite Quarry Seeds Ltd. NorthStar Genetics Manitoba Viterra Inc. Sask. Pulse Growers CANTERRA SEEDS Hensell District Co-op Viterra Inc. B&J Martens Seeds Hensell District Co-op CANTERRA SEEDS Sask. Pulse Growers Sask. Pulse Growers Sask. Pulse Growers Sask. Pulse Growers
CDC Hilose CDC Lophy-I CDC McGwire Millhouse CDC Rattan Roseland Taylor OAT Hulled Varieties SW Betania CDC Big Brown CDC Boyer Bradley CDC Dancer Derby HiliFi Jordan AAC Justice Lu CDC Minstrel AC Morgan CDC Morrison CDC Morrison CDC Morrison CDC Nasser CDC Orrin Pinnacle CDC Rufflan CDC Souls CDC Souls CDC CSouls CDC CSOLS CDC Seabiscuit CDC Souris Souris Sturide Sturide Sturide CDC Souris Sturide St	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members SeCan Members FP Genetics / Cargill Proven Seed/Mastin Seeds Seed Depot SeCan Members FP Genetics FP Genetics FP Genetics FP Genetics SeCan Members FP Genetics CANTERRA SEEDS T & L Seeds FP Genetics CANTERRA SEEDS T & L Seeds SeCan Members FP Genetics CANTERRA SEEDS T & L Seeds Seed Depot Secan Members	SOYBEAN 23-10RY 29002RR 900Y61 ♣ 900Y71 ♠ Bishop R2 LS 002R23 McLeod R2 NSC Libau RR2Y NSC Reston RR2Y NSC Tilston RR2Y Pekko R2 Sampsa R2 TH 32004R2Y TH 33003R2Y Vito R2 DRY BEAN AC Black Diamond CDC Blackcomb Carman Black Envoy Island CDC Jet Lightning Mariah ♠ CDC Marmot CDC Pintium AC Polaris	AAFC (Lethbridge) U of S - CDC AAFC (Morden) GenTec Seeds AAFC (Lethbridge) U of S - CDC U of Guelph Seminis Vegetable Seeds U of S - CDC U of S - CDC AAFC (Lethbridge)	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba Brett-Young Seeds Ltd./Elite Brett-Young Seeds Ltd./Elite Quarry Seeds Ltd./Elite Quarry Seeds Ltd. NorthStar Genetics Manitoba Viterra Inc. Sask. Pulse Growers CANTERRA SEEDS Hensell District Co-op Viterra Inc. B&J Martens Seeds Hensell District Co-op CANTERRA SEEDS Sask. Pulse Growers Sask. Pulse Growers Viterra Inc. Viterra Inc. Viterra Inc. Legumex-Walker Inc.
CDC Hilose CDC Lophy-I CDC McGwire Millhouse CDC Rattan Roseland Taylor OAT Hulled Varieties SW Betania CDC Big Brown CDC Boyer Bradley CDC Dancer Derby Hilfi Jordan AAC Justice Leggett Lu CDC Minstrel AC Morgan CDC Morrison CDC Morrison CDC Nasser CDC Orrin Pinnacle Ronald CDC Rufffan CDC Rufffan CDC CDC Rufffan CDC CDC Rufffan CDC CDC Seabiscuit CDC Souris Souris Stride Stride	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC AAFC (Winnipeg) AAFC (Winnipeg) AAFC (Lacombe) U of S - CDC	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members SeCan Members FP Genetics / Cargill Proven Seed/Mastin Seeds Seed Depot SeCan Members FP Genetics FP Genetics SeCan Members FP Genetics CANTERRA SEEDS T & L Seeds FP Genetics SeCan Members FP Genetics CANTERRA SEEDS T & L Seeds Seed Depot	SOYBEAN 23-10RY 29002RR 900Y71 9 900Y71 9 Bishop R2 LS 002R23 McLeod R2 NSC Libau RR2Y NSC Reston RR2Y NSC Tilston RR2Y Pekko R2 Sampsa R2 TH 32004R2Y TH 33003R2Y Vito R2 DRY BEAN AC Black Diamond CDC Blackcomb Carman Black Envoy Island CDC Jet Lightning Mariah CDC Marmot CDC Marmot CDC Marmot CDC Marmot CDC Pintium AC Polaris AC Redbond	AAFC (Lethbridge) U of S - CDC AAFC (Morden) GenTec Seeds AAFC (Lethbridge) U of S - CDC U of Guelph Seminis Vegetable Seeds U of S - CDC U of S - CDC U of S - CDC AAFC (Lethbridge) AAFC (Lethbridge) AAFC (Lethbridge)	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba Brett-Young Seeds Ltd./Elite Brett-Young Seeds Ltd./Elite Quarry Seeds Ltd. Quarry Seeds Ltd. NorthStar Genetics Manitoba Viterra Inc. Sask. Pulse Growers CANTERRA SEEDS Hensell District Co-op Viterra Inc. B&J Martens Seeds Hensell District Co-op CANTERRA SEEDS Sask. Pulse Growers Sask. Pulse Growers Viterra Inc. Viterra Inc. Viterra Inc. Viterra Inc.
CDC Hilose @ CDC Lophy-I CDC McGwire @ Millhouse CDC Rattan @ Roseland Taylor @ OAT Hulled Varieties SW Betania @ CDC Big Brown @ CDC Boyer Bradley @ CDC Dancer @ Derby HiFi @ Jordan @ AAC Justice C Leggett @ Lu CDC Minstrel @ AC Morgan CDC Morrison @ CDC Nasser CDC Orrin @ Pinnacle @ Ronald @ CDC Seabiscuit @ CDC Souris @ Stiride @ Summit @	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members SeCan Members FP Genetics / Cargill Proven Seed/Mastin Seeds Seed Depot SeCan Members FP Genetics FP Genetics FP Genetics FP Genetics SeCan Members FP Genetics CANTERRA SEEDS T & L Seeds FP Genetics CANTERRA SEEDS T & L Seeds SeCan Members FP Genetics CANTERRA SEEDS T & L Seeds Seed Depot Secan Members	SOYBEAN 23-10RY 29002RR 900Y61 ♥ 900Y71 ♠ Bishop R2 LS 002R23 McLeod R2 NSC Libau RR2Y NSC Reston RR2Y NSC Tilston RR2Y Pekko R2 Sampsa R2 TH 32004R2Y TH 33003R2Y Vito R2 DRY BEAN AC Black Diamond CDC Blackcomb Carman Black Envoy Island CDC Jet Lightning Mariah ♠ CDC Marmot CDC Pintium AC Polaris AC Redbond CDC Sol ♥	AAFC (Lethbridge) U of S - CDC AAFC (Morden) GenTec Seeds AAFC (Lethbridge) U of S - CDC U of Guelph Seminis Vegetable Seeds U of S - CDC U of S - CDC U of S - CDC AAFC (Lethbridge) AAFC (Lethbridge) AAFC (Lethbridge)	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba Brett-Young Seeds Ltd./Elite Brett-Young Seeds Ltd./Elite Quarry Seeds Ltd./Elite Quarry Seeds Ltd. NorthStar Genetics Manitoba Viterra Inc. Sask. Pulse Growers CANTERRA SEEDS Hensell District Co-op Viterra Inc. B&J Martens Seeds Hensell District Co-op CANTERRA SEEDS Sask. Pulse Growers Sask. Pulse Growers Viterra Inc. Viterra Inc. Viterra Inc. Legumex-Walker Inc.
CDC Hilose CDC Lophy-I CDC McGwire Millhouse CDC Rattan Roseland Taylor OAT Hulled Varieties SW Betania CDC Big Brown CDC Big Brown CDC Boyer Bradley CDC Dancer Derby Hilfi Jordan AAC Justice Leggett Lu CDC Minstrel AC Morgan CDC Minstrel AC Morgan CDC Nasser CDC Orrin Pinnacle Ronald CDC Ruffian CDC So-I Souris Stride Summit Triactor Milling CDC SUPPORT Support CDC	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC AAFC (Winnipeg) AAFC (Winnipeg) AAFC (Winnipeg) AAFC (Winnipeg) AAFC (Winnipeg)	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members SeCan Members FP Genetics / Cargill Proven Seed/Mastin Seeds Seed Depot SeCan Members FP Genetics FP Genetics SeCan Members CANTERRA SEEDS T & L Seeds SeCan Members FP Genetics SeCan Members FP Genetics SeCan Members FP Genetics CANTERRA SEEDS T & L Seeds SecAn Members FP Genetics CANTERRA SEEDS T & L Seeds Seed Depot SeCan Members FP Genetics	SOYBEAN 23-10RY 29002RR 900Y61	AAFC (Lethbridge) U of S - CDC AAFC (Morden) GenTec Seeds AAFC (Lethbridge) U of S - CDC U of Guelph Semins Vegetable Seeds U of S - CDC U of S - CDC AAFC (Lethbridge) U of S - CDC U of S - CDC AAFC (Lethbridge) U of S - CDC U, of Guelph Rogers Brothers	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba NorthStar Genetics Manitoba Brett-Young Seeds Ltd./Elite Guarry Seeds Ltd./Elite Quarry Seeds Ltd. Quarry Seeds Ltd. NorthStar Genetics Manitoba Viterra Inc. Sask. Pulse Growers CANTERRA SEEDS Hensell District Co-op Viterra Inc. B&J Martens Seeds Hensell District Co-op CANTERRA SEEDS Sask. Pulse Growers Viterra Inc. Use Growers Viterra Inc. Legumex-Walker Inc. Terramax Seeds U. of Guelph ADM Edible Bean Specialities
CDC Hilose & CDC Lophy-I CDC McGwire & Millhouse CDC Rattan & Roseland Taylor & CAT Hulled Varieties SW Betania & CDC Big Brown & CDC Boyer Bradley & CDC Dancer & Derby HiFi & Jordan & AAC Justice C Leggett & Lu CDC Morrison & CDC Morrison & CDC Morrison & CDC Oncor CDC Orrin & Pinnacle & Ronald & CDC Ruffian C CDC So-I Souris & Stride & Summit & Triactor & CDC Weaver & Millhouse M	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC NDSU AAFC (Winnipeg) Lantmannen SW Seed	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members SeCan Members FP Genetics / Cargill Proven Seed/Mastin Seeds Seed Depot SeCan Members FP Genetics FP Genetics FP Genetics SeCan Members FP Genetics CANTERRA SEEDS T & L Seeds FP Genetics SeCan Members FP Genetics CANTERRA SEEDS T & L Seeds Seed Depot SeCan Members FP Genetics CANTERRA SEEDS T & L Seeds Seed Depot SeCan Members FP Genetics CANTERRA SEEDS	SOYBEAN 23-10RY 29002RR 900Y71	AAFC (Lethbridge) U of S - CDC AAFC (Morden) GenTec Seeds AAFC (Lethbridge) U of S - CDC U of Guelph Seminis Vegetable Seeds U of S - CDC	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba Brett-Young Seeds Ltd./Elite Brett-Young Seeds Ltd./Elite Quarry Seeds Ltd. Quarry Seeds Ltd. NorthStar Genetics Manitoba Viterra Inc. Sask. Pulse Growers CANTERRA SEEDS Hensell District Co-op Viterra Inc. B&J Martens Seeds Hensell District Co-op CANTERRA SEEDS Sask. Pulse Growers Sask. Pulse Growers Viterra Inc. Viterra Inc. Use Growers Viterra Inc. Use Growers Viterra Inc.
CDC Hilose CDC Lophy-I CDC McGwire Millhouse CDC Rattan Roseland Taylor OAT Hulled Varieties SW Betania CDC Big Brown CDC Big Brown CDC Boyer Bradley CDC Dancer Derby HiFi Jordan AAC Justice Lu CDC Minstrel AC Morgan CDC Morrison CDC Masser CDC Nasser CDC Orir Pinnacle Ronald CDC Seabiscuit CDC So-I Souris Stride Summit Triactor CDC Weaver Hulless Varieties	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC AAFC (Winnipeg) Lantmannen SW Seed U of S - CDC	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members SeCan Members FP Genetics / Cargill Proven Seed/Mastin Seeds Seed Depot SeCan Members FP Genetics FP Genetics SeCan Members FP Genetics CANTERRA SEEDS T & L Seeds Sec Genetics CANTERRA SEEDS T & L Seeds Seed Depot SeCan Members FP Genetics CANTERRA SEEDS T & L Seeds Seed Depot SeCan Members FP Genetics CANTERRA SEEDS TP Genetics CANTERRA SEEDS TP Genetics CANTERRA SEEDS TP Genetics CANTERRA SEEDS TP Genetics CANTERRA SEEDS FP Genetics / Cargill	SOYBEAN 23-10RY 29002RR 900Y61	AAFC (Lethbridge) U of S - CDC AAFC (Morden) GenTec Seeds AAFC (Lethbridge) U of S - CDC U of Guelph Semins Vegetable Seeds U of S - CDC U of S - CDC AAFC (Lethbridge) U of S - CDC U of S - CDC AAFC (Lethbridge) U of S - CDC U, of Guelph Rogers Brothers	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba NorthStar Genetics Manitoba Brett-Young Seeds Ltd./Elite Guarry Seeds Ltd./Elite Quarry Seeds Ltd. Quarry Seeds Ltd. NorthStar Genetics Manitoba Viterra Inc. Sask. Pulse Growers CANTERRA SEEDS Hensell District Co-op Viterra Inc. B&J Martens Seeds Hensell District Co-op CANTERRA SEEDS Sask. Pulse Growers Viterra Inc. Use Growers Viterra Inc. Legumex-Walker Inc. Terramax Seeds U. of Guelph ADM Edible Bean Specialities
CDC Hilose (a) CDC Lophy-I CDC McGwire (b) Millhouse CDC Rattan (c) Roseland Taylor (c)	U of S - CDC U of S - CDC AAFC (Brandon) U of S - CDC AAFC (Brandon) AAFC (Brandon) Lantmannen SW Seed U of S - CDC NDSU AAFC (Winnipeg) Lantmannen SW Seed	Public release, U of S - CDC SeCan Members AAFC CANTERRA SEEDS TBA Alliance Seed Corporation Proven Seed/CPS Canada SeCan Members SeCan Members SeCan Members FP Genetics / Cargill Proven Seed/Mastin Seeds Seed Depot SeCan Members FP Genetics FP Genetics FP Genetics SeCan Members FP Genetics CANTERRA SEEDS T & L Seeds FP Genetics SeCan Members FP Genetics CANTERRA SEEDS T & L Seeds Seed Depot SeCan Members FP Genetics CANTERRA SEEDS T & L Seeds Seed Depot SeCan Members FP Genetics CANTERRA SEEDS	SOYBEAN 23-10RY 29002RR 900Y61 ♥ 900Y71 ♠ Bishop R2 LS 002R23 McLeod R2 NSC Libau RR2Y NSC Reston RR2Y NSC Tilston RR2Y Pekko R2 Sampsa R2 TH 32004R2Y TH 33003R2Y Vito R2 DRY BEAN AC Black Diamond CDC Blackcomb Carman Black Envoy Island CDC Jet Lightning Mariah ♠ CDC Marmot CDC Pintium AC Polaris AC Redbond CDC Sol ♥ Skyline ♠ OAC Spark Winchester Winmor	AAFC (Lethbridge) U of S - CDC AAFC (Morden) GenTec Seeds AAFC (Lethbridge) U of S - CDC U of Guelph Seminis Vegetable Seeds U of S - CDC U. of S - CDC U. of S - CDC AAFC (Lethbridge) AAFC (Lethbridge) U of S - CDC U. of Guelph Rogers Brothers AAFC (Morden)	Dekalb Quarry Seeds Ltd. Dupont Pioneer Dupont Pioneer Secan Delmar Commodities Secan NorthStar Genetics Manitoba NorthStar Genetics Manitoba Brett-Young Seeds Ltd./Elite Brett-Young Seeds Ltd./Elite Quarry Seeds Ltd./Elite Quarry Seeds Ltd. Quarry Seeds Ltd. NorthStar Genetics Manitoba Viterra Inc. Sask. Pulse Growers CANTERRA SEEDS Hensell District Co-op Viterra Inc. B&J Martens Seeds Hensell District Co-op CANTERRA SEEDS Sask. Pulse Growers Viterra Inc. Viterra Inc. Viterra Inc. Viterra Inc. Viterra Inc. Ovierra Inc. Viterra Inc. Viterra Inc. Viterra Inc. Legumex-Walker Inc. Terramax Seeds U. of Guelph ADM Edible Bean Specialities Viterra Inc.

Crop Kind, Class & Variety	Breeding Institution	Distributor	Crop Kind, Class & Variety	Breeding Institution	Distributor	
CHICKPEA DC Alma	U of S - CDC	Sask, Pulse Growers	LENTIL CDC Asterix	U of S - CDC	Sask, Pulse Growers	
mit (B-90) 🕲	ARO Volcani Centre	SaskCan Pulse Trading	CDC Asterix	U of S - CDC	Sask. Pulse Growers	
OC Cabri	U of S - CDC	Sask Pulse Growers	CDC Cherie CDC Dazil	U of S - CDC	Sask. Pulse Growers	
OC Capil OC Consul	0 01 S - CDC	Sask. Pulse Glowers	CDC Dazii CDC Greenland	U of S - CDC	Sask. Pulse Growers	
OC Corinne	U of S - CDC	Sask, Pulse Growers	CDC Greenstar	U of S - CDC	Sask. Pulse Growers	
OC Cory	U of S - CDC	Sask. Pulse Growers	CDC Greenstal	U of S - CDC	Sask. Pulse Growers	
OC Frontier	U of S - CDC	Sask. Pulse Growers	CDC Imax CDC Imigreen	U of S - CDC	Sask. Pulse Growers	
C Frontier C Leader		Sask. Pulse Growers	CDC Imigreen	U of S - CDC	Sask. Pulse Growers	
OC Leader OC Luna	U of S - CDC	Sask. Pulse Growers	•		Sask. Pulse Growers	
IC Orion	U of S - CDC U of S - CDC	Sask. Pulse Growers	CDC Impala CDC Imperial	U of S - CDC U of S - CDC	Sask. Pulse Growers	
C Vanguard	U of S - CDC	Sask. Pulse Growers	CDC Impower	U of S - CDC	Sask. Pulse Growers	
			CDC Impress	U of S - CDC	Sask. Pulse Growers	
ELD PEA		FD 0 "	CDC Improve	U of S - CDC	Sask. Pulse Growers	
arth 🗘	Limagrain Nederland	FP Genetics	CDC Imvincible	U of S - CDC	Sask. Pulse Growers	
C Acer	U of S - CDC	Sask. Pulse Growers	CDC KR-1	U of S - CDC	SaskCan Pulse Trading	
Admiral 🚳	Danisco Seeds	FP Genetics	CDC KR-2	U of S - CDC	SaskCan Pulse Trading	
assiz 🕲	AAFC	CANTERRA SEEDS	CDC LeMay	U of S - CDC	Sask. Pulse Growers	
C Amarillo	U of S - CDC	Sask. Pulse Growers	CDC Marble	U of S - CDC	SaskCan Pulse Trading	
jus 🙆	AAFC (Lacombe)	SeCan Members	CDC Maxim	U of S - CDC	Sask. Pulse Growers	
C Bronco	U of S - CDC	Sask. Pulse Growers	CDC Meteor	U of S - CDC	Sask. Pulse Growers	
C Centennial	U of S - CDC	Sask. Pulse Growers	CDC Milestone	U of S - CDC	Sask. Pulse Growers	
oper 🕲	Limagrain Nederland	CANTERRA SEEDS	CDC Peridot	U of S - CDC	Sask. Pulse Growers	
tlass	AARD / CDC	Sask. Pulse Growers	CDC Plato	U of S - CDC	Sask. Pulse Growers	
C Dakota	U of S - CDC	Sask. Pulse Growers	CDC QG-1	U of S - CDC	SaskCan Pulse Trading	
ta	Limagrain Nederland	FP Genetics	CDC QG-2	U of S - CDC	SaskCan Pulse Trading	
rlystar 🙆	AAFC (Lacombe)	CANTERRA SEEDS	CDC Red Rider	U of S - CDC	Sask. Pulse Growers	
ipse	Limagrain Nederland	FP Genetics	CDC Redberry	U of S - CDC	Sask. Pulse Growers	
C Golden	U of S - CDC	Sask. Pulse Growers	CDC Redbow	U of S - CDC	Sask. Pulse Growers	
C Horizon	U of S - CDC	Sask. Pulse Growers	CDC Redcliff	U of S - CDC	Sask. Pulse Growers	
C Hornet	U of S - CDC	Sask. Pulse Growers	CDC Redcoat	U of S - CDC	Sask. Pulse Growers	
C Leroy	U of S - CDC	Sask. Pulse Growers	CDC Richlea	U of S - CDC	SeCan Members	
C Limerick	U of S - CDC	Sask. Pulse Growers	CDC Rosebud	U of S - CDC	Sask. Pulse Growers	
C Meadow	U of S - CDC	Sask. Pulse Growers	CDC Rosie	U of S - CDC	Sask. Pulse Growers	
/ Midas 🛞	Lantmannen SW Seed	FP Genetics	CDC Rouleau	U of S - CDC	Sask. Pulse Growers	
C Minuet	U of S - CDC	Sask. Pulse Growers	CDC Ruby	U of S - CDC	Sask. Pulse Growers	
C Mosaic	U of S - CDC	Sask. Pulse Growers	CDC SB-1	U of S - CDC	Simpson Seeds	
C Mozart	U of S - CDC	Sask. Pulse Growers	CDC SB-2	U of S - CDC	Simpson Seeds	
C Patrick	U of S - CDC	Sask. Pulse Growers	CDC Scarlet	U of S - CDC	Sask. Pulse Growers	
C Pluto	U of S - CDC	Sask. Pulse Growers	CDC Sovereign	U of S - CDC	Sask. Pulse Growers	
stead	Limagrain Nederland	FP Genetics	CDC Viceroy	U of S - CDC	Sask. Pulse Growers	
C Prosper	U of S - CDC	Sask. Pulse Growers	•			
C Raezer	U of S - CDC	Sask. Pulse Growers	FABA BEAN			
ward 🙈	AAFC (Lacombe)	SeCan Members	CDC Blitz	U of S - CDC	Redview Farms	
C Rocket	U of S - CDC	Sask. Pulse Growers	CDC Fatima	U of S - CDC	Legumex-Walker Inc.	
C Saffron	U of S - CDC	Sask. Pulse Growers	FB9-4	U of S - CDC	SaskCan Pulse Trading	
C Sage	U of S - CDC	Sask. Pulse Growers	Florent	NPZ	DL Seeds	
/ Sergeant	Lantmannen SW Seed	FP Genetics	Imposa 🙆	Limagrain Nederland	Cyre Seed Farms	
ento 🚳	Limagrain Nederland	FP Genetics	CDC Snowdrop	U of S - CDC	,	
C Striker	U of S - CDC	Sask. Pulse Growers	Snowbird 💩	Limagrain Nederland	Bob Park - Lacombe, AB	
C Tetris	U of S - CDC	Sask. Pulse Growers	CDC SSNS-1	U of S - CDC		
underbird @	AAFC	CANTERRA SEEDS	Taboar @	Globe Seeds - Netherland	Terramax	
ipper	AAFC (Morden)	Public	Tobasco 🚳	DL Seeds Inc.	Ridell Seed Co.	
ippei C Treasure	U of S - CDC	Sask. Pulse Growers	, Judaco 🐷	DE OGGUS IIIC.	Muell Occu OU.	
C Tucker	U of S - CDC	Sask. Pulse Growers	CANOLA			
J I GONGI	0 01 0 - 000	Cuon. I uise Olowels	see table on pages VR20 + VR21			

Abbreviations Used in this List

AC Prefix to variety names Agriculture Canada (Agriculture and Agri-Food Canada) AAC Prefix to variety names Agriculture Canada (Agriculture and Agri-Food Canada)

AAFC Agriculture and Agri-Food Canada Crop Development Centre CDC

AARD Alberta Agriculture and Rural Development, Lacombe, AB

University IJ

U of S University of Saskatchewan USDA

United States Department of Agriculture

Accessing Public Release Varieties

Breeder seed of public release varieties is available to anyone (including farmers and seed growers) for multiplication, increase and marketing. There are no royalties or seed marketing agency fees attached to use or sale of seed produced from Breeder seed of public release varieties. While subsequent seed production may be Pedigreed, this is the buyer's choice and the buyer may increase and sell the seed of public release varieties in any way he/she wishes. To purchase Breeder seed of public release varieties, contact the breeding institution listed above.