

Alberta Seed Guide

PULSE

SPECIAL EDITION



Keep Those Peas STANDING

Can inter-row spacing and
PGRs save your crop?

INSIDE:

Increasing plant
protein processing
in Alberta

Prep your seed
for spring

An in-depth look
at the latest pulse
seed variety trials

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- Source: 2019 Alberta Seed Guide

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Alberta Seed Guide

Pulse Special Edition 2020



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DEAR READERS,

With spring right around the corner, there is no better time than now to choose your pulse seed for the upcoming season.

As Alberta's premiere source for seed, we listened to you, our valued readers, when you said you wanted more detailed information from our Spring 2020 seed guide on pulse options.

That is why we are proud to present the *Alberta Seed Guide: Pulse Special Edition*. This is a one-time opportunity to highlight the pulse varieties which can diversify your operation and boost your bottom line.

In fact, this special edition is a one-stop shop. In the following pages, you will find the Regional Variety Trial information complete with new and previously tested varieties. There is also a grower directory, along with a seed cleaning plant directory map.

As we all know too well, last year was a tough year for many crops throughout the province. The data in this Special Edition will provide more fulsome insight on the capability of the newer pulse varieties over the long-term. With this resource at your disposal, you can compare the new variety performance to the check variety only. In many cases, the check is a variety you might have already grown, which will allow for a better gauge on how the new variety will perform on your land.

Are you new to working with pulses? This is the perfect place to get started. Simple recommendations on preparing to seed and seeding your pulse crop can be found on page 19. Or, perhaps you grew pulses in the past and struggled with lodged crops and harvest issues, the story on pages four and five, reviews recent Alberta-based research on how to keep peas standing.

Marketing options continue to expand for pulse producers. The Plant Protein Alliance of Alberta is exploring local, value-added opportunities, so you can see what is on the horizon (pages six and seven).

As you pour through the following pages, we hope you will take a second to recognize our team which makes this all possible.

On the ground and in the field, our team of industry partners and subject matter experts work hard to bring you the best and most comprehensive data. The regional trials across the province are planned, seeded, managed, harvested and analysed with direction from the Alberta Pulse Growers, who provide third-party variety assessment. The variety entries used in these trials are submitted by the plant breeding and variety development industry (seed distributors) for a fee so you, as a producer, can see how these new varieties perform. Alberta Agriculture and Forestry (AAF) staff review the data and run statistical analysis to ensure the results are consistent under average environmental conditions. Plant breeders and industry representatives work together and review all the information to ensure what is published is a true representation of each variety.

We would like to thank everyone involved from those who put the seed in the ground to the ones who get this edition into your mailbox. In particular, a special thank you goes to AAF's Alex Fedko and Dr. Rob Graff of AAFC whose hard work and guidance helped to make this issue happen!

Thank you for reading – and happy seeding.

Renee Hoyme
President
Alberta Seed Growers

Tom Coppock
President
Alberta Seed Processors

CAN YOU SEE THE DIFFERENCE?

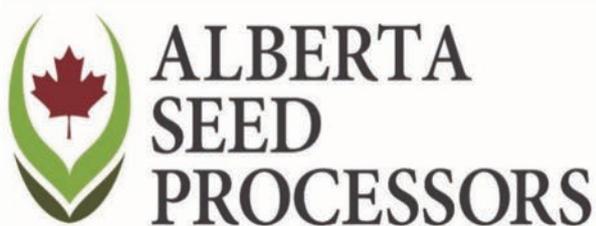


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Only trained seed analysts at accredited laboratories can uncover what you can't see. Test your pulse crops for vigour, germination, diseases & seed weight (aka 1000 kernel weight).

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Keep Those Peas Standing

With extreme lodging, it can take as much as five days to harvest a quarter-section of peas. A four-year project examined two possible ways to boost standability — inter-row seeding and PGRs.

Improvements in genetics and disease management have significantly improved the harvestability of peas, however keeping the crop standing remains one of the biggest challenges in field pea production. PHOTO SHERI STRYDOM

WHY IS IT SOME farmers who can grow peas don't grow peas? For many, the answer is the crop frequently lodges and can be extremely time-consuming to harvest.

Research helps improve standability, therefore, has tremendous value for pea growers and the industry. Between 2014 and 2018, Alberta Agriculture and Forestry Agronomy Research Scientist Sheri Strydhorst carefully examined two ideas for their potential to improve the standability and harvestability of field peas.

Inter-row Seeding can Help

Some Alberta farmers have reportedly improved their pea standability through the resourceful technique of seeding peas into standing wheat stubble. In concept, the sturdy wheat stubble props up the peas.

Strydhorst tried this idea at three sites in the central and Peace regions of Alberta by inter-row seeding peas into 8-inch and 12-inch wheat stubble. A check treatment had no wheat stubble.

“When there was lodging, stubble did improve standability about a quarter of the time,” Strydhorst says. “What surprised us was the other positive benefits we got, including reduced days to maturity and larger seed size.”

At the field level, growers can implement this low-cost practice to improve field pea standability fairly easily. By seeding in the same direction as the standing stubble, keeping the stubble tall and using the nudge feature on their GPS, about 70 per cent to 90 per cent of plants will be ‘accidentally’ inter-row seeded.

Value of Plant Growth Regulators Doubtful

The other idea Strydhorst has been testing is whether applying plant growth regulators (PGRs) would improve standability in pea crops. While Strydhorst gave the inter-row seeding idea a qualified yes, her ruling on PGRs was not so enthusiastic.

“We tested three different active ingredients using different rates and in different combinations,” she says. “Often it felt like we were spraying water. That’s how ineffective it was.”

Strydhorst wouldn’t recommend PGRs for field peas because using them showed no consistent improvement in height, standability, yield or seed size. In fact, if the pea crop was under stress due to heat or drought, PGRs actually reduced yield.

Although her research showed CDC Meadow responded slightly better to PGRs than AAC Lacombe, Strydhorst indicates further investigation may be needed to identify pea cultivars which might be more responsive to PGRs.

Strydhorst can relate to the frustration growers feel with pea standability. In her research plots, in fact, moderate to severe lodging occurred about 63 per cent of the time. This is a challenge which needs solving in order for Alberta’s pea growers and the industry to thrive.

PROJECT AT A GLANCE

Project title: Improving pea standability using inter-row seeding and Plant Growth Regulators

Project lead: Sheri Strydhorst, Alberta Agriculture and Forestry

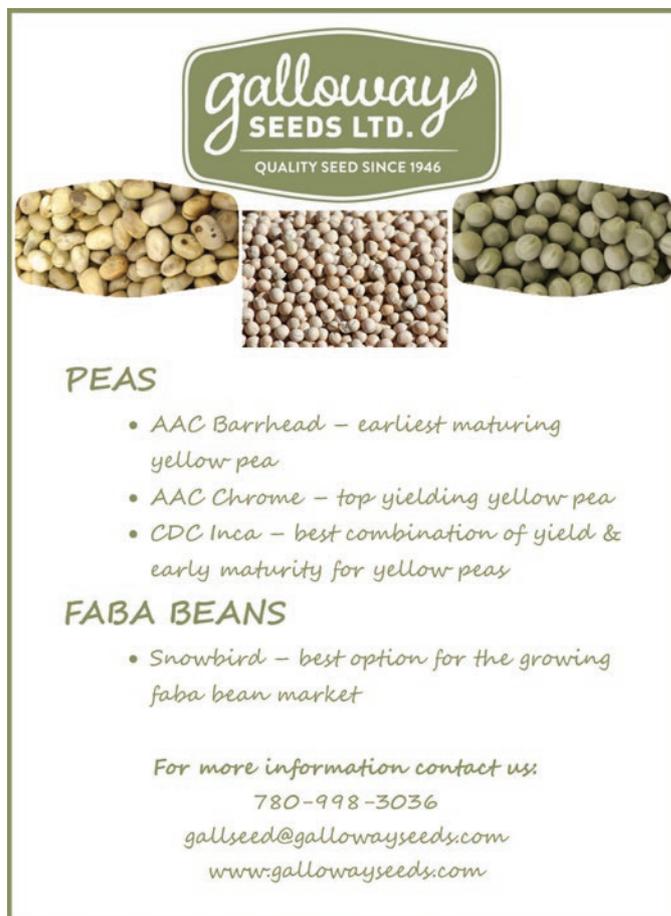
Total value of project: \$482,000

Start date: April 1, 2014

Completion date: March 31, 2018

“It’s a terrible headache when you have your pea crop go down,” Strydhorst says. “I’m not sure PGRs are the solution, but we do need to put significant agronomic effort into finding a solution for standability. Breeding will help but breeding alone isn’t the answer.”

• Alberta Pulse Growers



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Plant Protein Alliance of Alberta Striving for a Paradigm Shift in Alberta Agriculture

The PPAA’s goal is to make plant protein a key economic driver of Alberta’s economy. To get there, the alliance must change the industry’s current mindset, thereby removing the biggest challenge to significant new investment.

PLANT PROTEIN PROCESSING is one of the newer — and most exciting — agricultural value-added opportunities in Alberta. Open any Canadian newspaper these days and you’ll likely see a news story about plant proteins. A&W sold out of its Beyond Meat burger barely a month after it hit the menu in 2018, making the pea and beet-based burger the biggest ever launch for Canada’s second largest hamburger chain. Almost all other restaurants have since jumped on the protein alternative bandwagon, unveiling their own non-meat menu items in speedy succession.

Meat industry giants, including Tyson, Cargill and Maple Leaf, have each announced investments in alternative protein R&D, products and start-up companies. Meanwhile, new announcements of plant protein investments in pet foods, pharmaceuticals and beauty products hit the news daily. With market demand for plant proteins ballooning and global processing capacity still relatively low, countries around the world are scrambling to draw as much processing investment as they can capture.

The Plant Protein Alliance of Alberta (PPAA) wants Alberta farmers to benefit from the huge and growing opportunities in plant protein fractionation and processing. Since its inception over a year ago, the PPAA has been working from every angle to encourage plant protein investment in Alberta.

“The world is clamouring for more plant protein,” says Allison Ammeter, chair of both the PPAA and Pulse Canada. “The issue is not going to be whether the demand is met, but whether it will be met by processing plants in Canada.”

Despite the mainstreaming of plant protein processing, Canada currently exports nearly 95 per cent of the agricultural products it grows as raw commodities.

“I’m not asking for zero per cent: I still want to feed the world,” says Ammeter. “When we’re shipping away raw products, we’re shipping away jobs, we’re shipping away GDP, and we’re shipping away intellectual capacity — and then we’re buying it all back again at full cost. We can be so much more.”

The PPAA exists to help build Alberta into the “processing powerhouse” Ammeter believes the province can be. The PPAA’s mission is to facilitate the development of a diverse, profitable and sustainable plant protein and plant ingredient processing industry in Alberta: in short, to position Alberta as the single best place in the world for anyone looking to invest in plant protein processing.

In addition to clean, natural resources, excellent grower expertise, and globally-recognized food quality, Canada is uniquely positioned to capitalize on the growing demand for plant protein because it already grows a large volume of protein crops. Given the cost of shipping, it makes sense to process near where the primary products are produced.

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Admittedly, China currently has a leg-up on Canada for processing. Because China has far less stringent safety, environmental and social regulations, investors can build processing plants much more quickly and easily there than here. That said, consumers care about where and how their food is produced, which means China isn't at such an advantage.

"I don't see China being a long-term solution," says Ammeter. "A lot of companies are demanding good air, good water, good HACCP [food safety hazard avoidance protocol]. We at times question whether food processors are willing to pay enough for it yet, but customers definitely want it."

PPAA's goal is to make plant protein a key economic driver of Alberta's economy. To get there, PPAA is striving toward supporting the development of high-functioning value chains, state-of-the-art infrastructure and commercialized, market-driven products. It sees itself fulfilling four key roles: leading and supporting strategic alliances, encouraging collaborative relationships, cheerleading new ideas, and building awareness.

Already, Canada has drawn some big time investment. Among the more exciting builds, is the new Roquette plant slated to open in Portage la Prairie, Man., in 2020. With an annual processing capacity of 125,000 tonnes of yellow peas per year, the company describes the plant as the largest pea processing plant in the world. However, peas are certainly not the only plant protein with potential.

"Hemp seed protein has really taken off. There are so many products right now using hemp seed for everything from hand lotion to hemp milk," says Ammeter. "There are a lot of opportunities for oats right now and, again, we're growing the bulk of them. Canola — there is a lot of opportunity there to extract the protein left in the meal after the oil has been crushed out. Flax, triticale, barley, rye: the world is demanding more protein and, here we are, we have it."

Possibly the very biggest challenge to bringing in significant new investment is industry mindset: the move from growing raw product to growing and then carrying that product right through processing requires a major paradigm shift.

The change isn't impossible: in fact, Canada has proven its ability to shift toward a processing mentality with canola. In a small number of years, Canadian agriculture and agri-food successfully built a fully integrated canola processing sector that generates far better returns than canola would as a raw commodity. Now, the same needs to occur across commodity types.

"There is a real desire to change. Everyone is starting to recognize that we are at the complete mercy of global markets. Some of those markets do whatever they want without playing by the rules," says Ammeter.

Seed growers should welcome the growing interest in plant proteins with open arms. To date, most breeding has focused on improved agronomics (standability, disease resistance, etc.) and more generalized crop attributes (e.g. high protein level and high oil content). Plant protein processors, however, may need uniquely specific product characteristics, which could translate to increased opportunities for seed growers to grow niche varieties.

"I think what will happen more and more is buyers will say, 'This is great, but is it possible for me to get this in this specific protein level?' or 'What I really need is a fibre with these particular characteristics, or a starch that works in this particular way,'... I know I sound a little like the Jetsons, but I don't think I'm that far off," says Ammeter.

It's a "total win," she says, noting the entire value chain has something to gain from Canada — and Alberta — becoming a plant protein powerhouse.

In addition to demand increasing for more specialized varieties, the seed industry may also benefit from increased total demand.

"I may be wrong, but it seems to me that if you're growing a very specific product for a company, you're going to use certified seed rather than [farm-saved seed]. You're not going to take a chance that what you're selling a company is not absolutely [to specifications]," she says.

Likely, the move to speciality, company-specific varieties will translate to more closed loop systems. While contract growing specialized varieties for a single processor is different than growing for traditional commodity sale, successful closed loops, like Nexerra canola or Viterra's bean contracting in southern Alberta, are already operating.

• Madeleine Baerg



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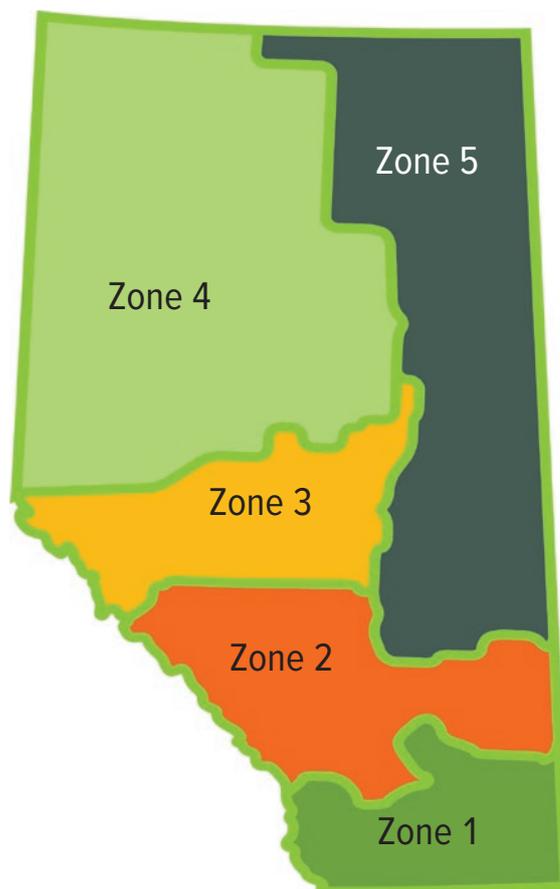
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Pulse Regional Variety Trials for the 2019 Growing Season

ONE OF THE PILLARS of best management practices for every crop is selecting one or more varieties that are well-suited to your growing environment and spread production risk. Following many years of funding regional variety trials (RVTs) across the province, the Alberta Pulse Growers (APG) has taken on a more direct role in the publication of variety information to ensure that Alberta producers continue to have current, pertinent data relevant to their farms.

Each year, the protocols for seeding, weed, insect and disease management, pre-harvest and harvest management are reviewed and standardized to ensure consistency of results. In 2019, 16 seed companies submitted entries for testing at up to 20 locations across Alberta and northern British Columbia. APG, the Alberta Seed Growers (ASG), Alberta Seed Processors (ASP) and Alberta Agriculture and Forestry, in partnership with these companies are pleased to provide these tables to empower farmers to select the best varieties for their operations.

The tables in this publication report the yield data by geographical area (please see the map). Yield of the check variety is indicated in bold, with test varieties reported as a percentage of that check variety. All sites were inspected numerous times during the growing season and the data were statistically analyzed to ensure validity. Please be aware that direct variety comparisons should only be made with the check. This is because the dataset is unbalanced over time, meaning that as new varieties enter the trials, those that have been tested for several years are discontinued. Unfortunately, it is not possible to continue testing all varieties for indefinite lengths of time. Also be aware that these tables are different from those appearing in the Spring 2020 edition of the *Alberta Seed Guide*, as only those varieties actually tested in 2019 were reported in that issue.



Additional information and specifics on management of the pulse variety trials, including testing site information, can be found on the Alberta Pulse Growers website www.albertapulse.com/rvt or on the APG app in both Android and Apple formats. We encourage you to check out these media!

Questions about these charts or general pulse agronomy? Email Nevin Rosaasen (nrosaasen@albertapulse.com) or Jenn Walker (jwalker@albertapulse.com) or talk to us on Twitter @APGResearch and @APGExtension.

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DRY BEAN – NARROW ROW

Variety	Type	Site Years 1997 - 2019	Overall Yield	Days to Bloom ¹	Days to Maturity	TSW ² (g)	Plant Height (cm)	Lodging ³ (1 - 5)	Growth Habit ⁴
Varieties tested in 2019 trials (Yield and agronomic data only directly comparable to the check within each type)									
AC Black Diamond (kg/ha)			3291						
AC Black Diamond	Black Shiny	23	100	57	102	259	36	2.3	II
AAC Black Diamond 2	Black Shiny	7	99	60	1	267	32	2.2	II
CDC Blackstrap (A) ☉	Black Matte	3	99	57	-6	240	29	2.3	II
Island (kg/ha)			4409						
Island	Pinto	13	100	56	100	353	40	2.7	II
AAC Expedition	Pinto	2	114	56	-1	435	28	2.9	II
AAC Explorer	Pinto	4	82	54	-6	400	35	1.9	II
CDC WM-2	Pinto	9	86	56	5	355	40	2.4	II
CDC WM-3 (A)*	Pinto	1	125	59	1	429	31	1.5	II
AAC Tundra (kg/ha)			4475						
AAC Tundra	Great Northern	9	100	54	96	371	41	2.4	II
AAC Whitehorse	Great Northern	8	108	53	-1	394	41	2.4	II
AAC Whitestar	Great Northern	5	103	48	-4	393	42	2.0	II
AC Resolute	Great Northern	6	97	50	1	368	39	1.9	II
AACY012 (kg/ha)			3842						
AAC Y012	Yellow	2	100	53	96	394	31	1.5	I
AAC Y015	Yellow	2	93	55	2	380	30	1.4	I
AAC Y073 (A)	Yellow	1	72	57	7	434	27	1.5	I
AAC Cranford (kg/ha)			3526						
AAC Cranford (A)	Cranberry	2	100	55	98	561	29	1.2	I
Previously tested varieties (Yield and agronomic data only directly comparable to the checks)									
AC Black Diamond (kg/ha)			3174						
AC Black Diamond	Black Shiny	20	100	57	103	253	36	2.3	II
CDC Blackcomb	Black Matte	6	78	64	1	186	36	1.3	II
Island (kg/ha)			4155						
Island	Pinto	10	100	56	102	344	42	2.7	II
AAC Burdett	Pinto	6	92	58	-4	381	42	1.3	II
CDC Marmot	Pinto	5	89	55	-6	419	34	2.2	II
Medicine Hat ☉	Pinto	8	99	62	4	342	44	2.0	II
Winchester	Pinto	5	80	58	7	302	45	2.1	II
AAC Tundra (kg/ha)			4559						
AAC Tundra	Great Northern	6	100	54	98	365	44	2.4	II
AC Polaris	Great Northern	14	76	58	5	329	35	3.4	II
AC Redbond (kg/ha)			2658						
AC Redbond	Small Red	16	100	51	101	296	38	2.5	II
CDC Sol (kg/ha)			1887						
CDC Sol	Yellow	6	100	59	111	385	33	1.6	I
Viva (kg/ha)			2380						
Viva	Pink	13	100	52	100	252	30	3.5	III

Remarks: A = First year entries (2019), with limited data and only one year of testing these varieties may exhibit highly variable results. ☉ = Protected by PBR (UPOV 78). ☉ = Protected by PBR (UPOV 91). *Applied for PBR protection at time of printing (UPOV '91). XX = Insufficient data to describe. ¹Days to bloom from seeding; ²Thousand Seed Weight; ³Lodging: 1 = erect, 5 = flat. ⁴Growth Habit: I = determinate bush, II = indeterminate bush, III = indeterminate prostrate.

DRY BEAN – WIDE ROW

Variety	Type	Site Years 1997 - 2019	Overall Yield	Days to Bloom ¹	Days to Maturity	TSW ² (g)	Plant Height (cm)	Lodging ³ (1 - 5)	Growth Habit ⁴
Varieties tested in 2019 trials (Yield and agronomic data only directly comparable to the check within each type)									
AC Black Diamond (kg/ha)			3222						
AC Black Diamond	Black Shiny	45	100	57	102	265	37	2.2	II
AAC Black Diamond 2	Black Shiny	12	102	58	2	256	36	2.3	II
CDC Blackstrap (A) ☉	Black Matte	1	94	62	2	207	23	1.8	II
Island (kg/ha)			3882						
Island	Pinto	26	100	56	99	368	40	3.0	II
AAC Expedition	Pinto	3	84	57	0	382	31	2.6	II
AAC Explorer	Pinto	7	92	55	-2	374	34	2.2	II
CDC WM-2	Pinto	15	78	56	2	369	40	2.5	II
CDC WM-3 (A)*	Pinto	1	99	59	4	339	29	2.3	II
AAC Tundra (kg/ha)			3783						
AAC Tundra	Great Northern	18	100	52	96	351	42	2.9	II
AAC Whitehorse	Great Northern	15	97	51	0	374	42	2.8	II
AAC Whitestar	Great Northern	9	97	54	0	370	44	2.9	II
Resolute	Great Northern	15	95	51	1	350	42	2.5	II
AAC Y012 (kg/ha)			3782						
AAC Y012	Yellow	7	100	54	100	397	34	1.5	I
AAC Y015	Yellow	7	87	56	1	397	33	2.3	I
AAC Y073 (A)	Yellow	1	82	58	5	414	27	1.8	I
AAC Cranford (kg/ha)			3197						
AAC Cranford	Cranberry	5	100	56	99	595	32	1.7	I
Previously tested varieties (Yield and agronomic data only directly comparable to the check within each type)									
AC Black Diamond (kg/ha)			3017						
AC Black Diamond	Black Shiny	40	100	57	103	265	38	2.2	II
CDC Blackcomb	Black Matte	11	79	62	0	178	35	1.8	II
Island (kg/ha)			3758						
Island	Pinto	20	100	56	100	369	41	3.0	II
AAC Burdett	Pinto	9	101	55	-6	354	44	2.2	II
Medicine Hat ☉	Pinto	12	93	61	4	354	42	2.4	II
Winchester	Pinto	13	85	56	4	337	40	2.5	II
AAC Tundra (kg/ha)			3570						
AAC Tundra	Great Northern	13	100	52	97	349	42	2.9	II
AC Polaris	Great Northern	6	107	62	7	300	37	4.1	II
AC Redbond (kg/ha)			3149						
AC Redbond	Small Red	29	100	52	100	319	40	2.4	II
CDC Sol (kg/ha)			2350						
CDC Sol	Yellow	14	100	55	104	409	33	1.5	I
Myasi	Yellow	9	89	63	6	350	34	2.1	I
Viva (kg/ha)			3137						
Viva	Pink	29	100	54	102	258	34	3.8	III

Remarks: A = First year entries (2019), with limited data and only one year of testing these varieties may exhibit highly variable results. ☉ = Protected by PBR (UPOV 78). ☉ = Protected by PBR (UPOV 91).
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FABABEAN

Variety	Type	Overall Yield	Overall Station Years of Testing	Relative Maturity ¹	Plant Height (cm)	Thousand Seed Weight (g)	Flower Colour ²
Varieties tested in 2019 trials (Yield and agronomic data only directly comparable to Snowbird)							
Snowbird (kg/ha)		5677					
Snowbird ☼	Low Tannin	100	60	E	89	478	W
219-16 ☼	Low Tannin	100	15	E	83	358	W
DL Tesoro ☼	Low Tannin	110	15	M	89	571	W
Fabelle ☼	Tannin	114	25	M	94	534	C
Malik * NR	Tannin	97	48	M	83	632	C
Previously tested varieties: 2013 - 2015 (Yield and agronomic data only directly comparable to Snowbird)							
CDC Snowdrop	Low Tannin	88	23	E	87	351	W
Tabasco ☼	Low Tannin	85	15	M	86	374	W

Remarks: 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. Fabelle is a normal tannin and low vicine-convicine variety. Tannin and low tannin fababean types should be separated by at least 500 meters and up to 2 kilometers to prevent cross-pollination. ☼ = Protected by PBR (UPOV 78). ☼ = Protected by PBR (UPOV 91). NR = Variety not registered with CFIA. * Contract Varieties.
¹Maturity: E = early, M = medium, L = late; ²Flower Colour: W = white flower; C = coloured flower.

CANARYGRASS

	S	F	R	C
CDC CIBO ☼				
BI: CDC, DIST: Canterra Seeds				
Jonk, Nicholas / Westlock / (780) 349-5458				R

CHICKPEA

	S	F	R	C
CDC EBONY				
BI: CDC, DIST: N/A				
Wilms, Timothy H. / Grassy Lake / (403) 655-2434		F	R	
CDC LEADER				
BI: CDC, DIST: N/A				
Penwest Seeds / Three Hills / (403) 443-2577				C
Wilms, Timothy H. / Grassy Lake / (403) 655-2434				C
CDC ORION				
BI: CDC, DIST: N/A				
Kiffiak, Nathan John & Anderson, Tim / Foremost / (403) 867-2338				C
CDC PALMER				
BI: CDC, DIST: SeedNet Inc.				
Wilms, Timothy H. / Grassy Lake / (403) 655-2434				R

FABA BEAN

	S	F	R	C
219-16 ☼				
BI: CDC, DIST: N/A				
Stamp Seeds / Enchant / (403) 739-2233	S	F		
Wilms, Timothy H. / Grassy Lake / (403) 655-2434	S	F		

CDC SNOWDROP

	S*	F*	R	C
BI: CDC, DIST: N/A				
Haralie Seed Farms / Beaver County / (780) 662-2617	S*	F*		
Klemppauer, Joerg / Vauxhall / (403) 330-5480			R	
Sim, Darwin & Derek / Ponoka / (780) 372-2111				C

DL RICO ☼

	S	F	R	C
BI: DL Seeds, DIST: Prairie Fava				
Stamp Seeds / Enchant / (403) 739-2233	S	F		

DL TESORO ☼

	S	F	R	C
BI: DL Seeds, DIST: Riddell Seed Co.				
Sim, Darwin & Derek / Ponoka / (780) 372-2111	S			

FABELLE

	S	F	R	C
BI: DL Seeds, DIST: SeedNet Inc.				
Stamp Seeds / Enchant / (403) 739-2233		F		

SNOWBIRD ☼

	S	F	R	C
BI: Innoseeds, DIST: Limagrain Cereals Research Canada				
Alect Seeds / Three Hills / (403) 443-9599				C
Baier, Bill & Dean / Clyde / (780) 348-5791			R	
Cyre, Clifford & Greg / Barrhead / (780) 307-4332		F	R	C
Dallas, Bradley C. / Bowden / (403) 224-2162				C
Foster, Norman R. / Beaverlodge / (780) 354-2107				C
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036			R	C
Harbin, Clifford T. & Bruce Clifford / Rivercourse / (780) 745-2268				C
Koester, Gordon & Munro, Daniel / Rockyford / (403) 533-2248				C
Lindholm Seed Farm / New Norway / (780) 352-3240	S	F	R	C
Prestville Farms Ltd. / Rycroft / (780) 814-2849			R	
Stamp Seeds / Enchant / (403) 739-2233			R	C

LENTIL

Market Class	Variety	Overall Yield	Overall Station Years of Testing	Area:						Agronomic Characteristics:				Disease Tolerance: ⁵		
				1		2		5		Plant Height (cm)	Maturity Rating ²	Cotyledon Colour ³	Seed Coat Colour ⁴	Ascochyta	Anthracnose	
				Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years							TSW ¹ (g)
Varieties tested in 2019 trials (Yield and agronomic data only directly comparable to CDC Maxim (CL))																
	CDC Maxim (CL) (kg/ha)	2939		2836		2718		3772								
Small Red	CDC Maxim (CL)	100	41	100	33	100	4	100	4	40	34	E/M	R	GR	G	G
Small Red	CDC Impulse (CL) ☺	102	21	100	13	107	4	101	4	47	36	E/M	R	GR	G	G
Small Red	CDC Proclaim (CL) ☺	100	18	99	10	105	4	98	4	40	35	E/M	R	GR	G	G
Large Green	CDC Lima (CL) ☺	90	12	89	6	107	2	83	4	67	34	M/L	Y	G	G	VP
Previously tested varieties (Yield and agronomic data only directly comparable to CDC Maxim (CL))																
Extra Small Red	CDC Impala (CL)	93	20	93	20	XX	XX	XX	XX	31	35	E	R	GR	G	G
Extra Small Red	CDC Imperial (CL)	82	17	82	17	XX	XX	XX	XX	30	35	E	R	GR	G	G
Extra Small Red	CDC Rosie	97	19	102	17	76	2	XX	XX	30	35	E/M	R	GR	G	G
Extra Small Red	CDC Roxy ☺	99	17	97	11	104	4	103	2	28	33	E/M	R	GR	G	G
Small Red	CDC Dazil (CL)	94	25	93	23	98	2	XX	XX	34	35	E/M	R	GR	G	F
Small Red	CDC Imax (CL)	100	19	100	19	XX	XX	XX	XX	46	37	E/M	R	GR	G	F
Small Red	CDC Redberry	96	17	96	17	XX	XX	XX	XX	44	37	E	R	GR	G	G
Small Red	CDC Redcliff	110	14	110	14	XX	XX	XX	XX	39	36	E/M	R	GR	G	F
Small Red	CDC Scarlet	102	19	105	17	86	2	XX	XX	38	35	E/M	R	GR	G	F
Large Red	CDC KR-1	104	23	104	21	103	2	XX	XX	52	39	M	R	GR	G	G
Small Green	CDC Invincible (CL)	96	28	96	26	90	2	XX	XX	33	35	E	Y	G	G	G
Small Green	CDC Kermit ☺	103	8	92	4	127	2	103	2	31	32	E/M	Y	G	G	G
Medium Green	CDC Imigreen (CL)	79	14	79	14	XX	XX	XX	XX	61	43	M	Y	G	G	VP
Medium Green	CDC Impress (CL)	85	14	85	14	XX	XX	XX	XX	52	38	M	Y	G	G	P
Large Green	CDC Greenland	88	14	88	14	XX	XX	XX	XX	67	39	M/L	Y	G	G	VP
Large Green	CDC Greenstar	92	9	XX	XX	XX	XX	XX	XX	63	37	M/L	Y	G	G	F
Large Green	CDC Impower (CL)	81	23	81	21	83	2	XX	XX	67	41	M/L	Y	G	G	VP
Large Green	CDC Improve (CL)	84	23	84	21	83	2	XX	XX	71	38	M	Y	G	F	VP

Remarks: Weight, diameter and thickness of lentil seeds were dependent upon environmental conditions and agronomic factors. ☺ = Protected by PBR (UPOV 91). CL= Clearfield variety. XX = Insufficient data to describe. ¹Thousand Seed Weight. ²Maturity: E = Early, M = Medium, L = Late, VL = Very Late. ³Cotyledon Colour: R = Red, Y = Yellow; ⁴Seed Coat Colour/Patterns: G = Green, GR = Grey; ⁵ Disease tolerance: VP = Very Poor, P = Poor, F = Fair, G = Good.

HEMP

	S	F	R	C
ALTAIR BI: N/A, DIST: UniSeeds Inc. Cailliau, Cecile Dana & Dave / Enchant / (587) 813-0312				C
CANMA BI: N/A, DIST: Natural Emphasis Fresh Hemp Foods Ltd. (FHF) / Ste. Agathe / (204) 882-2480				C
CFX-2 BI: N/A, DIST: Hemp Genetics International Inc. Hemp Genetics International Inc. / Saskatoon / (604) 882-4936				C
FINOLA ☺ BI: N/A, DIST: Hemp Oil Canada Fresh Hemp Foods Ltd. (FHF) / Ste. Agathe / (204) 882-2480				C
GRANMA BI: N/A, DIST: N/A Fresh Hemp Foods Ltd. (FHF) / Ste. Agathe / (204) 882-2480				R
GRANDI BI: N/A, DIST: Hemp Genetics International Inc. Mercer Seeds Ltd. / Lethbridge / (403) 327-9736		F*		C*

LENTIL

	S	F	R	C
CDC IMPULSE ☺ BI: CDC, DIST: SeCan Members Quattro Ventures / Bow Island / (403) 545-2222				C
CDC LIMA BI: CDC, DIST: SeCan Members Chin Ridge Seeds Ltd. / Taber / (403) 223-3900 Mercer Seeds Ltd. / Lethbridge / (403) 327-9736 Willms, Timothy H. / Grassy Lake / (403) 655-2434	S	F		
CDC NIMBLE ☺ BI: CDC, DIST: Sask. Pulse Growers Chin Ridge Seeds Ltd. / Taber / (403) 223-3900 Geldreich, Dave / Bow Island / (403) 545-2222	S			
CDC PROCLAIM ☺ BI: CDC, DIST: SeedNet Inc. Benci, Dennis / Carmangay / (403) 643-2294 Mercer Seeds Ltd. / Lethbridge / (403) 327-9736 Penwest Seeds / Three Hills / (403) 443-2577 Sleepy Hollow Seeds Ltd. / Milk River / (403) 647-2228 Witdouck, Dale / Iron Springs / (403) 738-4395	S	F		C
CDC REDMOON ☺ BI: CDC, DIST: SeCan Members Chin Ridge Seeds Ltd. / Taber / (403) 223-3900	S			

FIELD PEA – GREEN

Variety	Overall Yield	Overall Station Years of Testing	Area:										Agronomic Characteristics:			
			1		2		3		4		5		Maturity Rating ¹	Vine Length (cm)	TSW ² (g)	Standability ³ (1 - 9)
			Yield (%)	Site Years												
Varieties tested in 2019 trials (Yield and agronomic data only directly comparable to CDC Limerick)																
CDC Limerick (kg/ha)	4779		3559		4583		6062		4723		5686					
CDC Limerick	100	118	100	20	100	36	100	18	100	33	100	11	M	78	211	3.0
AAC Comfort (P)	100	42	103	8	103	12	101	6	99	10	96	6	M - L	78	253	3.3
Blueman (P)	107	42	110	8	108	12	103	6	109	10	103	6	M	81	214	2.6
CDC Forest (P)	109	42	116	8	111	12	106	6	107	10	105	6	M	81	236	2.2
CDC Spruce (P)	106	42	103	8	110	12	111	6	102	10	106	6	M	81	254	2.3
Previously tested varieties (Yield and agronomic data only directly comparable to CDC Limerick)																
AAC Radius	92	44	94	8	90	10	88	6	94	16	88	4	M	76	217	3.6
AAC Royce	96	40	106	8	92	8	92	6	98	14	87	4	M	67	247	4.1
CDC Greenwater	106	42	106	8	109	10	105	6	106	14	97	4	L	74	230	2.8
Varieties tested in 2013 - 2014 (Yield and agronomic data only directly comparable to CDC Patrick)																
CDC Patrick (kg/ha)	4732		5083		4543		5591		4305		5060					
CDC Patrick	100	109	100	16	100	34	100	12	100	32	100	14	M	79	186	4.4
CDC Pluto	96	52	101	8	98	17	81	5	100	16	87	6	M	82	170	6.0
CDC Raezer	105	52	91	8	107	17	94	5	107	16	118	6	M	89	227	4.2
CDC Tetris	106	52	102	8	105	17	93	5	110	16	116	6	L	91	215	4.4
Varieties tested in 2004 - 2012 (Yield and agronomic data only directly comparable to Cooper)																
Cooper (kg/ha)	4724		4947		4316		5435		4835		4244					
Cooper (P)	100	121	100	18	100	34	100	14	100	36	100	19	L	76	270	3.6
CDC Sage	82	31	79	3	80	6	84	6	84	13	78	3	M	75	197	3.3
CDC Striker	96	39	92	3	115	7	107	4	89	21	92	4	M	72	255	3.0

Remarks: CDC Tetris is an Espace type with blocky seed shape. All the green pea varieties listed in the table are Powdery Mildew resistant except CDC Striker that is susceptible. (P) = Protected by PBR (UPOV 78). (P) = Protected by PBR (UPOV 91). XX = Insufficient data to describe. ¹Maturity: E = Early, M = Medium, L = Late. ²Thousand Seed Weight, g. ³Standability: 1 = Erect, 9 = Flat. *Tolerance to: P = Poor, F = Fair, G = Good, VG = Very Good. *Seed Coat Dimpling: VG = Very Good (0 - 5%), G = Good (6 - 20%), F = Fair (21 - 50%).

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FIELD PEA – GREEN – CONTINUED

Disease Tolerance:⁴

Variety	Mycosphaerella Blight	Fusarium Wilt	Bleaching	Seed Coat Breakage	Seed Coat Dimpling ⁵
Varieties tested in 2019 trials (Yield and agronomic data only directly comparable to CDC Limerick)					
CDC Limerick (kg/ha)					
CDC Limerick	F	F	G	VG	G
AAC Comfort ☉	F	F	G	G	F
Blueman ☉	F	F	G	G	G
CDC Forest ☉	F	F	G	G	G
CDC Spruce ☉	F	F	G	G	F
Previously tested varieties (Yield and agronomic data only directly comparable to CDC Limerick)					
AAC Radius	F	F	G	G	G
AAC Royce	F	F	G	F	F
CDC Greenwater	F	G	G	F	F
Varieties tested in 2013 - 2014 (Yield and agronomic data only directly comparable to CDC Patrick)					
CDC Patrick (kg/ha)					
CDC Patrick	F	G	G	G	G
CDC Pluto	F	F	G	G	G
CDC Raezer	F	G	G	G	G
CDC Tetris	F	G	G	G	G
Varieties tested in 2004 - 2012 (Yield and agronomic data only directly comparable to Cooper)					
Cooper (kg/ha)					
Cooper ☉	F	F	G	F	G
CDC Sage	F	G	G	VG	G
CDC Striker	F	G	G	G	G

Remarks: CDC Tetris is an Espace type with blocky seed shape. All the green pea varieties listed in the table are Powdery Mildew resistant except CDC Striker that is susceptible. ☉ = Protected by PBR (UPOV 78), ☉ = Protected by PBR (UPOV 91). XX = Insufficient data to describe. ¹Maturity: E = Early, M = Medium, L = Late. ²Thousand Seed Weight, g. ³Standability: 1 = Erect, 9 = Flat. ⁴Tolerance to: P = Poor, F = Fair, G = Good, VG = Very Good. ⁵Seed Coat Dimpling: VG = Very Good (0 - 5%), G = Good (6 - 20%), F = Fair (21 - 50%).

MUSTARD

	S	F	R	C
AAC ADAGIO ☉ BI: AAFC (Saskatoon), DIST: N/A Mercer Seeds Ltd. / Lethbridge / (403) 327-9736				C
AC VULCAN BI: AAFC (Saskatoon), DIST: N/A Mercer Seeds Ltd. / Lethbridge / (403) 327-9736				C*
ANDANTE BI: AAFC (Saskatoon), DIST: N/A Mercer Seeds Ltd. / Lethbridge / (403) 327-9736				C
CENTENNIAL BI: N/A, DIST: Nutrien Ag Solutions/Proven Seed Mercer Seeds Ltd. / Lethbridge / (403) 327-9736		F		C
CUTLASS BI: N/A, DIST: Nutrien Ag Solutions/Proven Seed Mercer Seeds Ltd. / Lethbridge / (403) 327-9736		F		C
FORGE BI: N/A, DIST: Nutrien Ag Solutions/Proven Seed Mercer Seeds Ltd. / Lethbridge / (403) 327-9736				C*

PEAS - FORAGE

	S	F	R	C
CDC HORIZON BI: CDC, DIST: Mastin Seeds Foster, Norman R. / Beaverlodge / (780) 354-2107 Froese, Cornelius H. / La Crete / (780) 927-4645 Hadland, Edward / Baldonnel / (250) 793-9746 Jonk, Nicholas / Westlock / (780) 349-5458 Mastin, Robert B. / Sundre / (403) 556-2609				R R C R
CDC LEROY BI: CDC, DIST: N/A Chin Ridge Seeds Ltd. / Taber / (403) 223-3900	S	F		
DL DELICIOUS ☉ BI: DL Seeds, DIST: FP Genetics Quattro Ventures / Bow Island / (403) 545-2222				R
DL GOLDEYE ☉ BI: DL Seeds, Dist: Riddell Seed Co. Sim, Darwin & Derek / Ponoka / (780) 372-2111	S			R

DL LACROSS ☉

BI: DL Seeds, DIST: SeedNet Inc.
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900
Stamp Seeds / Enchant / (403) 739-2233

S
S

PEAS - GREEN

	S	F	R	C
AAC COMFORT ☉ BI: AAFC, DIST: Canterra Seeds Huvenaars, Carl / Hays / (403) 725-2213 Lindholm Seed Farm / New Norway / (780) 352-3240 Prestville Farms Ltd. / Rycroft / (780) 814-2849				R C R
BLUEMAN BI: DL Seeds, DIST: SeedNet Inc. Stamp Seeds / Enchant / (403) 739-2233 Wheatcrest Farms / Lomond / (403) 792-3696		F		
CDC DAKOTA BI: CDC, DIST: N/A Klempnauer, Joerg / Vauxhall / (403) 330-5480 Stamp Seeds / Enchant / (403) 739-2233	S			C
CDC FOREST ☉ BI: CDC, DIST: SeCan Members Baier, Bill & Dean / Clyde / (780) 348-5791 Dewindt, Harry & Hoyme, Renee / Thorhild / (780) 398-2377 Hallett's Hay & Seed / Carstairs / (403) 337-3072 Hoff, Peter Edward / Gleichen / (403) 734-2140 Penwest Seeds / Three Hills / (403) 443-2577 Thompson, M. Ellwood & Kelly / Red Deer County / (403) 728-3535				R R R S F R F
CDC GREENWATER BI: CDC, DIST: Saskatchewan Pulse Growers Holmstrom, Darrell / Killam / (780) 385-3574 Willms, Timothy H. / Grassy Lake / (403) 655-2434				R C F R
CDC LIMERICK BI: CDC, DIST: Saskatchewan Pulse Growers Ellis, Brian / Olds / (403) 556-2890 Haralie Seed Farms / Beaver County / (780) 662-2617 Howard, Fred / Wanham / (780) 694-2427 Lindholm Seed Farm / New Norway / (780) 352-3240 McDonald, Gerald / Co. Of Grande Prairie #1 / (780) 538-3868 Sendziak Seed Farm / Edmonton / (780) 434-1322				C C C C C C

	S	F	R	C
CDC RAEZER				
BI: CDC, DIST: N/A				
Kapitski, Lawrence / Andrew / (780) 365-2134				C
Krywko, Ronald / Sturgeon County / (780) 939-1719				C
LS Land & Cattle / Didsbury / (403) 335-3694				C
Plante, Jacques / St. Paul / (780) 645-4604				C
CDC SPRUCE ☼				
BI: CDC, DIST: SeCan Members				
Archer, Nathan / Didsbury / (403) 556-0693				C
Baier, Bill & Dean / Clyde / (780) 348-5791				C
Dewindt, Harry & Hoyme, Renee / Thorhild / (780) 398-2377				C
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036				C
Lampron, Claude / St-Vincent / (780) 614-1413				C
CDC STRIKER				
BI: CDC, DIST: N/A				
Sim, Darwin & Derek / Ponoka / (780) 372-2111				C
CDC TETRIS				
BI: CDC, DIST: N/A				
Richard, Gerald / Spirit River / (780) 864-2339				C
COOPER ☼				
BI: Innoseeds, DIST: Canterra Seeds				
Cyre, Clifford & Greg / Barrhead / (780) 307-4332				C
GARDE				
BI: N/A, DIST: Bob Park				
Alect Seeds / Three Hills / (403) 443-9599				C
Hegland, David Olaf / Wembley / (780) 766-2450				R
Lohner, Kevin / Daysland / (780) 679-6309				C
Mercer Seeds Ltd. / Lethbridge / (403) 327-9736				C
PEAS - MAPLE				
AAC LISCARD				
BI: AAFC (Lacombe), DIST: N/A				
Stamp Seeds / Enchant / (403) 739-2233	S	F	R	
CDC BLAZER				
BI: CDC, DIST: SeCan Members				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900				C

	S	F	R	C
PEAS - YELLOW				
AAC ARDILL				
BI: AAFC (Lacombe), DIST: N/A				
Hartzler, Leonard / Carstairs / (403) 337-2416				C
Penwest Seeds / Three Hills / (403) 443-2577	S			C
Sand, Ron W. & David R. / McLaughlin / (780) 745-2251			R	C
AAC BARRHEAD ☼				
BI: AAFC (Lacombe), DIST: N/A				
Hadland, Edward / Baldonnel / (250) 793-9746				C
Jackson, Thomas / Killam / (780) 385-2332				C
Konieczny, Scott / Mannville / (780) 581-5693				C
Mueller, Richard J. & R. R. & Rosemary / Barrhead / (780) 674-6713		F	R	
AAC CARVER ☼				
BI: AAFC, DIST: Canterra Seeds				
Assure Seeds Ltd. / Acme / (403) 510-9260				R
Beaulieu, Emery / Fairview / (780) 835-8525				R
Benci, Dennis / Carmangay / (403) 643-2294	S			R
Boisvert, Marc / Girouxville / (780) 618-4724				C
Eliason, Bruce W. / Wrentham / (403) 222-2258				C
Ellis, Brian / Olds / (403) 556-2890	S	F		C
Felstad, Colin / Dapp / (780) 349-9505				C
Goode, Tim / Lacombe / (403) 506-9424				C
Harbin, Clifford T. & Bruce Clifford / Rivercourse / (780) 745-2268				C
Huvenaars, Carl / Hays / (403) 725-2213				C
Jonk, Nicholas / Westlock / (780) 349-5458				C
K3 Seeds / Picture Butte / (403) 715-7989				R
Kapitski, Lawrence / Andrew / (780) 365-2134				C
King's Seed Farm / Three Hills / (403) 443-3333				C
Massey, Derwin & Kirby / Stettler / (403) 883-2503				R
Meinczinger, Matthew Jr. / Busby / (780) 349-2456				C
Penwest Seeds / Three Hills / (403) 443-2577	S	F		R
Plante, Jacques / St. Paul / (780) 645-4604				C
Prestville Farms Ltd. / Rycroft / (780) 814-2849				C
Richards, Dan / Sexsmith / (780) 766-2266				R
Rix, Graham / Wetaskiwin / (780) 360-9234				C
Sendziak Seed Farm / Edmonton / (780) 434-1322				R
Solick Seeds Ltd. / Halkirk / (403) 884-2358				R
Specialty Seeds / Bow Island / (403) 545-6018				C

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Busby | (780) 349-2456
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- GD Ellis Farms**
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- Harbin Seed Farm**
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- Prestville Farms**
Rycroft | (780) 814-2849
- Scenic Heights Farms**
Sexsmith | (780) 766-2266
- Plante Farms**
St. Paul | (780) 645-4604

- Echo Ridge Seeds**
Stettler | (403) 883-2503
- King's Seed Farm**
Three Hills | (403) 443-3333
- Penwest Seeds**
Three Hills | (403) 443-2577
- Jonk Seeds**
Westlock | (780) 349-0483
- Rix Farms**
Wetaskiwin | (780) 360-9234
- Eliason Farms**
Wrentham | (403) 222-2258
- BC**
- PW Farms**
Cecil Lake | (250) 781-3527



FIELD PEA – YELLOW

Variety	Area:												Agronomic Characteristics:			
	Overall Yield	Overall Station Years of Testing	1		2		3		4		5		Mat. Rating ¹	Vine Length (cm)	TSW ² (g)	Standability ³ (1-9)
			Yield (%)	Site Years												
New entries* in 2019 trials (Yield and agronomic data only directly comparable to CDC Amarillo)																
CDC Amarillo (kg/ha)	5230		3799		4774		6529		5420		6192					
CDC Amarillo	100	116	100	18	100	30	100	17	100	25	100	16	M	81	227	2.4
AAC Aberdeen ☹	103	9	122	2	103	2	91	2	120	1	90	2	M	89	243	2.5
AAC Ardill ☹	111	9	115	2	103	2	109	2	117	1	114	2	M	85	230	2.4
AAC Delhi ☹	105	9	106	2	102	2	109	2	117	1	98	2	M	71	288	2.8
Other entries in 2019 trials (Yield and agronomic data only directly comparable to CDC Amarillo)																
AAC Barrhead ☹	99	52	96	9	98	12	98	10	104	12	98	9	E	82	233	2.5
AAC Chrome ☹	108	38	115	7	109	10	102	7	109	7	106	7	M-L	72	240	2.9
AAC Lacombe ☹	104	85	107	15	101	25	104	12	106	21	100	12	M	76	258	2.2
CDC Canary ☹	103	38	103	7	103	10	102	7	103	7	103	7	E	80	241	2.6
CDC Inca ☹	104	52	102	9	98	12	112	10	105	13	103	8	M	79	231	2.1
CDC Lewochko ☹	101	24	105	4	99	6	102	5	103	4	99	5	M	89	233	1.6
CDC Meadow	97	101	100	17	100	28	93	15	97	26	95	15	M	81	205	3.6
CDC Spectrum ☹	105	38	105	7	101	10	106	7	104	7	109	7	M	78	242	2.1
LN4228 ☹	95	54	93	10	95	13	92	9	96	15	99	7	M	73	254	2.1
Previously tested varieties (Yield and agronomic data only directly comparable to CDC Amarillo)																
AAC Carver ☹	105	43	105	7	103	10	104	8	108	11	103	7	E	84	243	2.9
AAC Peace River	92	49	89	8	94	15	90	5	97	16	82	5	VE	68	217	3.8
Abarth ☹	98	49	101	8	104	16	83	5	94	14	102	6	M	77	249	3.6
CDC Athabasca ☹	95	29	92	5	94	8	99	5	95	6	91	5	M	80	284	2.0
Varieties tested in 2005 - 2014 (Yield and agronomic data only directly compared to CDC Meadow)																
CDC Meadow (kg/ha)	4982		3793		4567		6266		5189		5175					
CDC Meadow	100	111	100	13	100	21	100	14	100	50	100	13	M	82	208	3.5
Agassiz ☹	103	22	99	2	103	3	108	2	103	14	104	1	M	75	234	2.4
CDC Golden	91	20	86	1	90	1	84	2	92	16	XX	XX	M	76	221	2.5
CDC Hornet	100	31	105	4	102	8	97	4	100	10	96	5	M	89	209	3.7
CDC Prosper	93	23	92	1	87	4	91	2	97	13	81	3	E	72	146	3.9
CDC Saffron	103	47	110	8	104	15	99	5	101	13	99	6	M	84	236	4.3
CDC Treasure	97	23	103	1	92	4	91	2	99	13	93	3	E	80	213	3.3
Hugo ☹	93	47	104	7	92	13	92	6	96	14	75	7	M	73	210	5.2
Stella ☹ NR F	80	45	75	7	81	13	83	6	80	12	80	7	M	95	213	3.9
Thunderbird ⁺	101	16	77	2	107	3	102	2	105	8	101	1	M	73	235	1.6

Remarks: Stella is a silage type pea. All the yellow pea varieties listed in the table are Powdery Mildew resistant except Carrera that is susceptible. ☹ = Protected by PBR (UPOV 78). ☹ = Protected by PBR (UPOV 91). * = Varieties with limited results and only one year of testing may exhibit highly variable results. NR = Variety not registered with CFIA. F = Forage type. XX = Insufficient data to describe. ¹Maturity: E = early, M = medium, L = Late. ²Thousand Seed Weight: g. ³Standability: 1 = erect, 9 = flat. ⁴Tolerance to: P = poor, F = fair, G = good, VG = very good. ⁵Seed Coat Dimpling: VG = very good (0 - 5%), G = good (6 - 20%), F = fair (21 - 50%). ⁶Green Seed Coat: G = good (0 - 10%), F = fair (11 - 25%). + - flagged for possible removal in 2021.

True Seeds / Redwater / (780) 777-5885																	
Unrau, George / La Crete / (780) 926-1133																	
Wuthrich, David / Cecil Lake / (250) 781-3527																	
AAC CHROME ☹																	
BI: AAFC (Lacombe), DIST: FP Genetics																	
Benci, Dennis / Carmangay / (403) 643-2294	S																
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900																	
Danielson, Lionel & Bonnie / Okotoks / (306) 594-7417	S																
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036																	
Geldreich, Dave / Bow Island / (403) 545-2222	S	F															
Harbin, Clifford T. & Bruce Clifford / Rivercourse / (780) 745-2268		F															
King's Seed Farm / Three Hills / (403) 443-3333		F															
Markert Seeds Ltd. / Vulcan / (403) 485-6708																	
Mercer Seeds Ltd. / Lethbridge / (403) 327-9736																	
Prestville Farms Ltd. / Rycroft / (780) 814-2849																	
Quattro Ventures / Bow Island / (403) 545-2222																	
Sim, Darwin & Derek / Ponoka / (780) 372-2111	S																
Solick Seeds Ltd. / Halkirk / (403) 884-2358		F															
Stamp Seeds / Enchant / (403) 739-2233	S	F															
AAC DELHI																	
BI: AAFC (Lacombe), DIST: SeedNet Inc.																	
Specialty Seeds / Bow Island / (403) 545-6018		F															
Stamp Seeds / Enchant / (403) 739-2233	S	F															
Wheatcrest Farms / Lomond / (403) 792-3696	S	F															

AAC LACOMBE ☹																	
BI: AAFC, DIST: SeedNet Inc.																	
Alect Seeds / Three Hills / (403) 443-9599																	
Benci, Dennis / Carmangay / (403) 643-2294																	
Dewindt, Harry & Hoyme, Renee / Thorhild / (780) 398-2377																	
Ellis, Brian / Olds / (403) 556-2890	S	F															
Forward Seed Farm / County Of Barrhead / (780) 674-3822																	
Moffitt, Kenneth & Raymond / Radway / (780) 818-6550																	
Mueller, Richard J. & R. R. & Rosemary / Barrhead / (780) 674-6713																	
Stamp Seeds / Enchant / (403) 739-2233																	
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253																	
Witdouch, Dale / Iron Springs / (403) 738-4395																	
AAC PROFIT ☹																	
BI: AAFC (Lacombe), DIST: N/A																	
Geldreich, Dave / Bow Island / (403) 545-2222																	
ABARTH ☹																	
BI: Limagrain, DIST: FP Genetics																	
Quattro Ventures / Bow Island / (403) 545-2222																	
Stamp Seeds / Enchant / (403) 739-2233																	
CDC AMARILLO																	
BI: CDC, DIST: Saskatchewan Pulse Growers																	
Alect Seeds / Three Hills / (403) 443-9599																	
Davidson, E. Daryl & Dean / Kitscoty / (780) 846-2456																	
Degenhardt, Keith, Terry Lee & Kerry / Hughenden / (780) 856-2383																	

SOYBEAN

Variety	Overall Yield	Overall Station years of Testing	Irrigation:		Agronomic Characteristics:			
			Yield (%)	Site Years	Plant Height (cm)	Relative Days to Maturity ³	TSW ⁴ (g)	Seeds per Pound
First year entries* in 2019 trials (Yield and agronomic data only directly comparable to McLeod R2)								
McLeod R2 (kg/ha)	3202		3445					
McLeod R2	100	31	100	26	56	123	156	2910
Amirani R2	99	3	99	3	54	-9	154	2948
Devo R2X	93	3	93	3	58	-3	139	3277
Dinero R2X	95	3	95	3	46	-3	142	3189
Dugaldo R2X	96	3	96	3	55	0	139	3261
Karpo R2	101	3	101	3	54	-6	134	3385
Maxus	95	3	95	3	58	-1	148	3074
PV 15S0009 R2X	85	3	85	3	52	-9	149	3047
Siberia	97	3	97	3	54	0	134	3388
Sunna R2X	96	3	96	3	53	-7	140	3243
PV 18S0009 R2X	89	3	89	3	58	-9	109	4165
Varuna R2	103	3	103	3	48	-9	146	3110
Varieties with two years of testing in 2019 (Yield and agronomic data only directly comparable to McLeod R2)								
Akras R2	109	31	112	26	53	2	147	3088
DKB0005-44	90	8	91	7	49	-4	138	3290
DKB0009-89	93	8	92	7	52	-6	160	2838
NSC Leroy RR2Y	84	12	84	11	57	-10	146	3110
NSC Watson RR2Y	90	16	89	15	54	-11	151	3007
Nocoma R2	91	12	91	11	52	-5	155	2929
S0007-B7X	79	8	78	7	51	-10	141	3220
S0009-M2	97	20	97	19	55	-9	147	3088
S003-Z4X	92	3	92	3	49	-7	160	2838
Torro R2	90	16	89	15	52	-2	141	3220
Previously tested varieties (Yield and agronomic data only directly comparable to McLeod R2)								
900Y61	85	15	90	11	56	1	150	3024
NSC Moosomin RR2Y	87	15	78	11	49	-4	138	3287
NSC Reston RR2Y	101	15	103	11	61	-2	128	3544
Vito R2	87	15	89	11	71	0	132	3436
P001T34R (P)	XX	XX	65	11	46	-9	136	3335
Pekko R2	95	15	102	11	65	0	130	3489
S003-L3	103	13	103	12	55	-7	174	2609
S006-W5	108	13	109	12	54	-5	133	3414
S007-Y4	108	17	108	16	58	-1	150	3027
TH 33003R2Y	102	24	101	19	68	-1	140	3243

Remarks: * = Varieties with limited results and only one year of testing may exhibit highly variable results. (P) = Protected by PBR (UPOV 78). (P) = Protected by PBR (UPOV 91). XX = Insufficient data to describe. NR = Variety not registered with CFIA. ¹Maturity is reported as +/- days relative to McLeod R2. ²TSW: Thousand Seed Weight.

SOYBEAN

S F R C

NSC LEROY

BI: N/A, DIST: Northstar Genetics Canada

Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036

C

NSC WATSON RR2Y

BI: N/A, DIST: Northstar Genetics Canada

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C

Soybean Seed Distributors

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BrettYoung / 1-800-665-5015 / www.brettyoung.ca

CANTERRA SEEDS / 1-877-744-4321 / www.canterra.com

Corteva Agriscience / 1-800-667-3852 / www.corteva.ca

MAIZEX / 1-519-682-1720 / www.maizex.com

NorthStar Genetics / 1-204-262-2425 / www.northstargenetics.com/ca/

Nutrien Ag Solutions / 1-855-569-9444 / www.nutrien.com/

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Syngenta Canada Inc / 1-877-964-3682 / www.syngenta.ca

Thunder Seeds Canada / 1-306 213 8888 / www.thunderseeds.com

Getting Your Seed Ready for Spring — a Handy Checklist

1. Look after your seed quality

a. Double check your seed quality — remember fields sprayed with a pre-harvest product could suffer damage to seed quality. Be sure to test your seed, experts recommend conducting a germination and vigor test with disease screening.

b. Mind the concussion factor — many pulse crops have very fragile seed coats and are more susceptible to mechanical damage than cereal seeds. Seed which gets “beat-up” can quickly lose quality due to mechanical damage. Use conveyers and “ladders” as much as possible in handling systems. Try to handle your pulse crop seed as little as possible to lower the risk of damage. Further, seed which is very dry or extremely cold is brittle and fragile.

c. If you find yourself in a position in which you need to purchase seed, talk to your seed supplier sooner versus later. Planning is key to securing the variety and quantity of good quality seed that fits your agronomic area.

2. Seed treatments — an important ingredient to consider for integrated pest management (IPM)

a. Integrating a seed protectant into your IPM program takes forethought. Knowing which insects and diseases affect pulse crops in your fields, as well as those in your surrounding area is key to making the proper decision regarding seed treatments. Remember, some diseases like *Aphanomyces* cannot be mitigated with seed treatment products, which is why field selection is important.

b. Application matters — even application of the proper label rate of seed treatment products directly affects efficacy, resistance management and user safety. Seed growers, retailers and seed processors often have commercial application equipment which can accurately deliver the proper rate the proper way.

c. Also be mindful of incompatibilities of fungicides with some rhizobia inoculant products.

3. Inoculate

a. Unleash the power of the pulse by using the proper inoculant — inoculants come in a variety of formulations: liquid, granular and peat-based. Inoculants are critical in nitrogen fixation of pulse crops and are species (strain) specific for each crop. Be sure to use the correct strain by consulting the label prior to application.

b. Always follow the manufacturers recommendations for using inoculants — inoculants do have a shelf life as well as storage rules. Generally, it's recommended you store them in a cool, dark location. Most manufactures recommend applying inoculant only to seed intended for planting within a specified number of hours. Typically, there are clear recommendations for safe intervals in which they can be mixed into a slurry (if applicable) and applied to the seed. Pay attention to the fine print of the inoculant label, most suppliers have toll-free numbers and/or salespeople who can answer any questions.

c. As mentioned before, check compatibility with any fungicidal or insecticidal seed protectants which may be applied in conjunction with an inoculant.

4. Seeding tips

a. Field selection plays an important role in disease and weed management — be mindful as pulse crops are not strong early season weed competitors and herbicide options are limited. Selecting a clean field is an important step in a weed control program. Avoid the temptation to apply pre-seed herbicides once you have seeded, as the risk for crop damage escalates. Be mindful of possible herbicide carryover which can vary between products, soil types, as well as in-season rainfall.

b. Even though many pulse crops have relatively large seed size, pulse crops can be very susceptible to fertilizer toxicity. Consult with your agronomist or fertilizer supplier for maximum rates which can be safely placed with the seed.

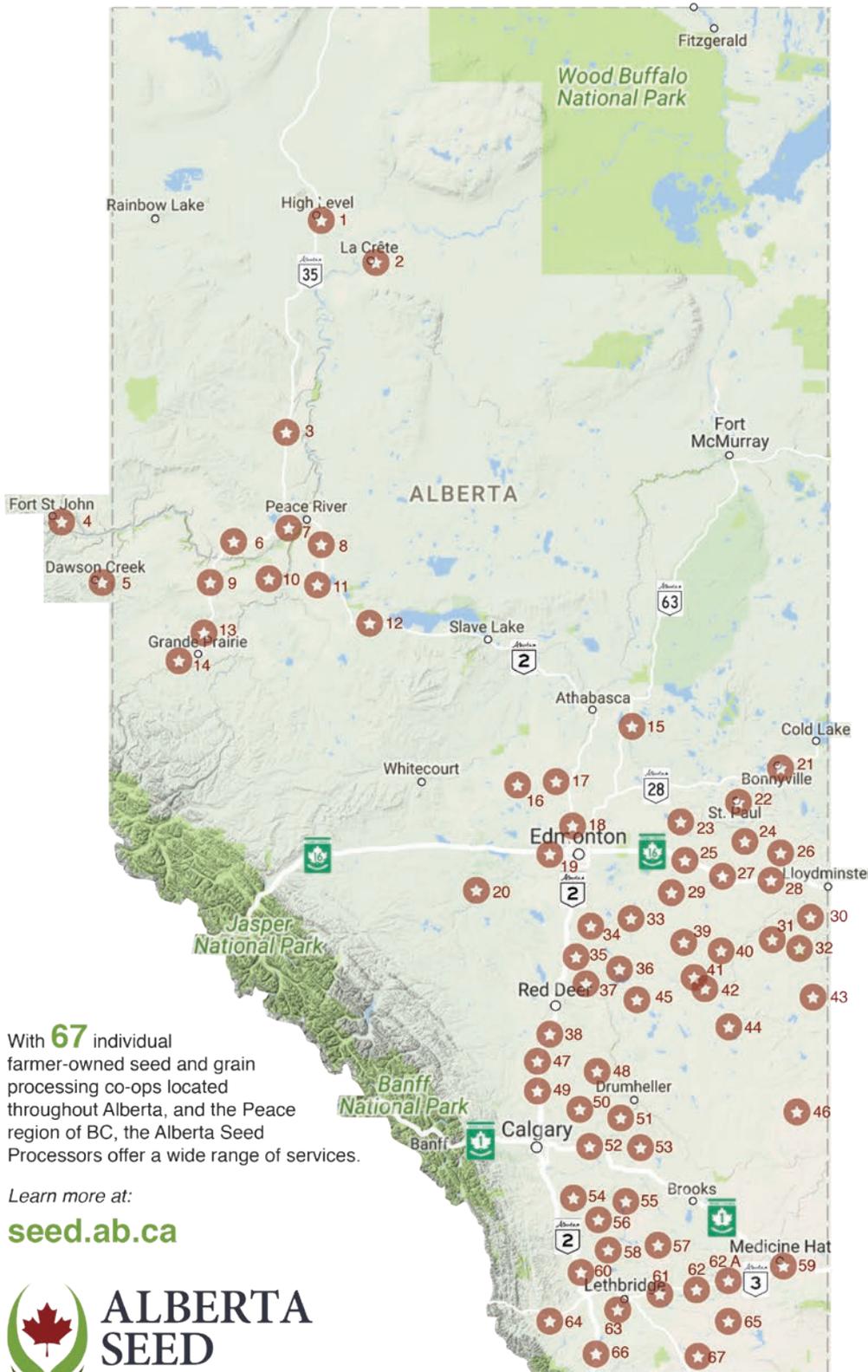
c. Seed early — faba beans, peas, lentils and chickpeas all have growing points below the soil surface, thus the risk of catastrophic frost damage is reduced as the soil acts as insulation to protect the nodes from a hint of frost. Soybeans and dry beans do have a different growth habit though, with the growing points being above the soil surface which dramatically reduces frost tolerance.

d. Calibrate and pay attention to seeding equipment settings — high fan speeds on air seeders can contribute to mechanical damage of fragile and/or brittle seed coats.

e. Optimum seeding depth of pulse crops range from 1.5 to two inches. Also attempt to seed into moist seed beds to optimize germination.

• **Alberta Seed Guide with assistance from Robyn Bowness Davidson, pulse research scientist at Alberta Agriculture and Forestry**

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- 27 Innisfree Municipal Seed Cleaning Assoc.
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- 29 Beaver County Seed Cleaning Co-op Ltd.
- 30 Battle River Seed Cleaning Co-operative Ltd.
- 31 Wainwright Seed Cleaning Plant Ltd.
- 32 Edgerton & District Seed Cleaning Co-op Ltd.
- 33 Camrose County Seed Cleaning Plant
- 34 Wetaskiwin Seed & Grain Cooperative Ltd.
- 35 Ponoka Co-op Seed Cleaning Plant Ltd.
- 36 Bashaw Seed Cleaning Co-op Assoc. Ltd.
- 37 Clive Seed Cleaning Co-op Ltd.
- 38 Innisfail Municipal Seed Cleaning Plant
- 39 Strome Co-op Seed Cleaning Plant Ltd.
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- 51 Rosebud Seed Cleaning Plant Ltd.
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- 56 Vulcan Seed Cleaning Association Ltd.
- 57 Enchant Co-op Seed Cleaning Assoc. Ltd.
- 58 Carmangay Seed Cleaning Plant Assoc. Ltd.
- 59 The 11-22 Co-op Seed Plant Ltd.
- 60 Granum Seed Cleaning Co-op Ltd.
- 61 County of Lethbridge Seed Cleaning Co-op Ltd.
- 62 Taber Seed Cleaning Co-op Association Ltd.
- 62A Taber Seed Cleaning Co-op- Site #2
- 63 Sunshine Seed Cleaning Plant Ltd.
- 64 Pincher Seed Cleaning Co-op Ltd.
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