

# VARIETY RELEASE PROGRAM 2019

January 17, 2019

SASKATCHEWAN  
pulse  
Growers



# **SPG VISION:**

Nourish the world with profitable pulse  
production



# Pulse Breeding Program: A Strategic Partnership with CDC

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- Collaborative agreement since 1997
- Superior genetics royalty-free to Saskatchewan pulse growers
- **127** varieties released through VRP since 1997:
  - Pea: 41
  - Lentil: 51
  - Bean: 9
  - Chickpea: 23
  - Fababean: 3



# Variety Commercialization Program

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- **Variety Release Program** (Select seed growers)
- **Commercialization outside of SK** (Sub-License)
- **Tender Release Program** (Sub-License)
- **International Distribution** (Sub-License)



# International Distribution



- New varieties are first commercialized in Canada
- Only distributors with a license agreement may sell seed outside of Canada
- For ALL generations of seed released through VRP
- Generates royalty revenue and protects valuable genetics
- Purchasers of pulse varieties must be informed of this limitation

**POLICIES AND PROCEDURES: Please read and sign the following:**

*I acknowledge that this is a firm order and that I have read, understand and agree to fully comply with the Variety Release Program Policies and Procedures (updated December 2018) and accept the consequences of noncompliance. The terms of such Variety Release Policies and Procedures, as amended from time to time, are specifically incorporated herein. I also agree to not sell any variety released by the Variety Release Program outside of the **Distribution Territory** (Saskatchewan and Canada), as defined by variety in the Policies and Procedures document, and shall advise all purchasers of such distribution restriction.*

Signature \_\_\_\_\_

Date \_\_\_\_\_

# International Distributors

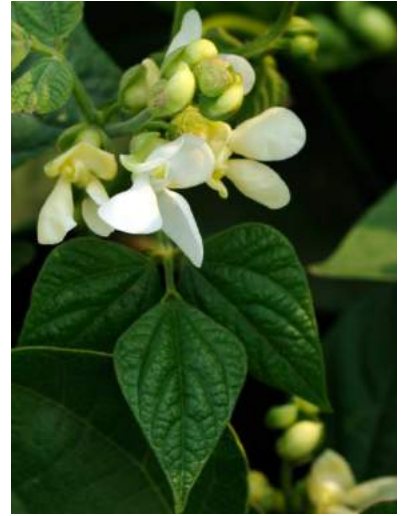
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- Peas, Chickpeas & Beans: Canterra Seeds  
Winnipeg, MB; Meridian Seeds - Casselton, ND
- Lentils (non-CL): FP Genetics - Regina, SK
- CLEARFIELD<sup>®</sup> Lentils: Pulse USA Bismarck ND
- Fababeans: by variety (CDC Snowdrop: Pulse USA)



# Tender Release Program: Criteria

- Unique geographic market or quality specific
- Marketing could result in premiums for producers
- Limited or no demand – emerging market class NEEDS MARKET DEVELOPMENT (e.g. red pea)
- A closed-loop system to protect intellectual property
- Low acreage at time of release (e.g. <15,000 acres)
- Does not disrupt markets supplied by SK production



**The market class/variety would not succeed if released through the VRP**

# Tendered Market Classes

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- Rudy Agro (**New**):
  - Slow to darken pinto bean (WM)
- AGT Foods:
  - Large red lentil (KR-2, King Red™)
  - Green cotyledon lentil (QG-4, Queen Green™)
- Simpson Seeds:
  - Spanish brown lentil (CDC SB-4, Iberina™)
- ILTA Grain Inc.
  - Red cotyledon pea (Redbat 88)





# Market Classes - Off Tender

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## Large seeded, tannin, food-type faba bean

- Off tender in spring 2018 (previously tendered to AGT)
- Variety FB9-4

## Black bean

- Off tender in spring 2018 (previously tendered to Scoular)
- Varieties include CDC Jet, CDC Superjet & CDC Blackstrap



# Commercialization outside SK

- Exclusive marketing rights licensed to distribution agents outside of SK
- PBR'91 varieties
- Royalty on all seed sold outside of SK
- Seed sold in SK remains royalty-free
- Seed growers in SK are not permitted to sell seed of licensed varieties o/s SK without an agreement with the licensed agent



# Distribution Agents

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## SeCan:

2017: CDC Spruce

CDC Blazer

CDC Kermit

CDC Redmoon

CDC Jasper

CDC Coral

CDC Canary

CDC Carmine

CDC Spectrum

CDC Impulse

CDC Forest

CDC Athabasca

CDC Roxy



2018: CDC Lima

CDC Lewochko

CDC 219-16

## SeedNet:

2017: CDC Inca

CDC Proclaim

CDC Palmer



# Variety Release Program (VRP)

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- Breeder seed provided to Saskatchewan seed growers
- Open to Select (cereal/pulse) and/or Foundation (mustard/canola/rapeseed) seed growers
- “OP” accredited growers can also obtain breeder seed
- Eligible crops: peas, lentils, chickpeas, fababeans, dry beans



# Applications For Breeder Seed

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Application deadline is:

5:00pm CST THURSDAY, FEBRUARY 7, 2019

- 20% non-refundable deposit must accompany order form
- 3% service charge on deposits made via credit card
- Phone orders will not be accepted
- Final payment due July 31





# Seed Allocation

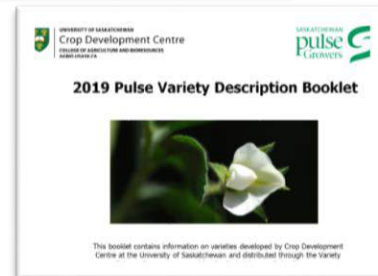
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- Orders received before deadline filled first
- Late requests or requests for extra seed considered after original allocation - if seed is available (1<sup>st</sup> come, 1<sup>st</sup> serve)
- Seed distributed in 25 kg bags
- If demand exceeds supply
  - ➔ Minimum seed order (1 acre)
  - ➔ Random draw



# VRP – Package For Growers

- Variety Description Tables
- Order Form
- Policy and Procedures (Revised Dec. 2018)



## **NEW:**

- SPG will notify the seed grower when order received (5 business days).
- If the grower does not receive notification - contact SPG.
- SPG will not be responsible for orders that are not received without follow-up from the grower.



Packages are available for pick-up at this meeting

# CLEARFIELD® Lentil Orders



- Sign the CLEARFIELD® section on the order form

**If ordering CDC CLEARFIELD lentil varieties, please read and sign the following:**

*I understand that by providing my signature below I agree to sign and date the BASF CLEARFIELD Commitment (to be forwarded to me upon SPG receiving this order). I also understand that any orders for CDC CLEARFIELD lentils that are not accompanied by this signed order form and a signed BASF CLEARFIELD Commitment will not be filled, as outlined in the accompanying Variety Release Program Policies and Procedures (updated December 2018).*

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

- Must sign BASF CLEARFIELD® Commitment before seed released
- Sign-up on-line (<https://agro.basf.ca/lentils/commitment.html>) or use paper forms

# CLEARFIELD® Lentil Orders

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- Prior to seed allocation, SPG will consult with BASF if Clearfield Commitment has been signed
- If not signed → follow up with grower
- Once confirmation received → seed released to grower



# New Varieties For Release 2018

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## Small Red Lentil: CDC Nimble (CL<sup>®</sup>)

- 58 bags (seed is limited)
- Yield equal to the highest yielding CL<sup>®</sup> small red lentil in the south (CDC Impulse)
- Highest yielding CL<sup>®</sup> small red lentil in the north
- Consistent high yield over all soil zones is indicative of good yield stability in a wide range of environmental conditions.





# New Varieties For Release 2018

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## Small Red Lentil: IBC-1235 (CL<sup>®</sup>)

- 71 bags (seed is limited)
- Potential for very high yield
- 110% of CDC Maxim in the 2015-2017 Lentil Co-op trials
- 120% in the 2017-18 Lentil Regional Variety trials



**IBC-1235**

# New Varieties For Release 2018

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## Kabuli Chickpea: CDC 3662

- 33 bags (seed is very limited!)
- First imazamox herbicide tolerant chickpea released since PMRA approved the use of Solo ADV on imi-tolerant chickpeas.
- While it is equal in yield to other high yielding Kabulis in the brown soil zone, it is the highest yielding imi-tolerant Kabuli chickpea available.



CDC 3662



CDC Palmer

# Seed Available: Peas

Yellow:	CDC Lewochko*	65
	CDC Canary	103
	CDC Spectrum	9
	CDC Athabasca	19
	CDC Inca	36
	CDC Amarillo	76

Forage:	CDC Jasper	9
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Maple:	CDC Blazer*	30
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Dun:	CDC Dakota*	28
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\*Increased in 2018

Green:	CDC Forest*	20
	CDC Spruce	64
	CDC Limerick*	22
	CDC Raezer	4
	CDC Greenwater	22



# Seed Available: Lentils

## Small red:

CDC Nimble*	58
IBC-1235*	71
CDC Proclaim*	25
CDC Impulse	4
CDC Carmine	14
CDC Coral	34
CDC Redmoon	23
CDC Roxy	10
CDC Maxim	11

## Extra small red:

CDC Imp	47
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## Large green:

CDC Lima*	94
CDC Greenstar	13

## Small green:

CDC Kermit	16
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## French green:

CDC Marble	10
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CDC Lima

CDC Imp

# Seed Available: Chickpea & Faba

## Faba bean (zero tannin):

CDC Snowdrop	15
CDC 219-16	218



## Chickpea: (Kabuli)

CDC 3662*	33
CDC Palmer*	19
CDC Leader	18
CDC Frontier	3



CDC 3662



CDC Palmer



# Faba Bean: Future Changes

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- Antinutritional compounds vicine and convicine causes rapid onset of anemia in a small percentage of the human population.
- Low vicine/convicine is desirable for protein extraction markets.
- Plant breeders in the faba bean industry are developing low vicine/convicine (LVC) varieties
- Gene reduces vicine/convicine by 99%.
- Implications for isolation distances!
- LVC status will become mandatory for faba beans that enter food and feed systems.

# Regional Pulse Meetings

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Feb. 4 – Rosetown

Feb. 5 – Swift Current

Feb. 6 – Assiniboia

Feb. 7 – Regina



## Topics:

Variety update from the CDC – Dr. Tom Warkentin

Pulse Insects of Concern – Dr. James Tansey

SPG Organizational Update – Carl Potts

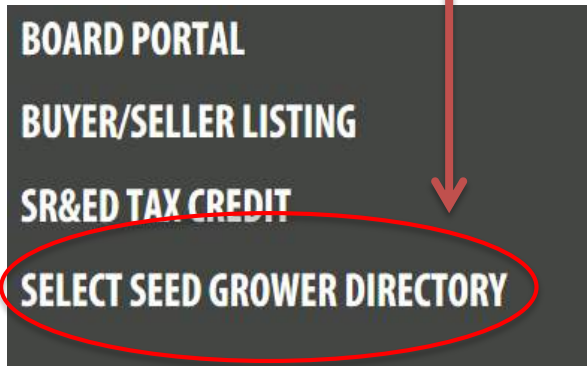
Root Rots and Kochia – Sherrilyn Phelps

Regional Pulse Update – Crops Extension Specialists

Pulse Market Outlook – Marlene Boersch

# Select Seed Growers Directory

On SPG website: click link at bottom of home page



Search by variety, crop or market class

A search interface with a green header. It contains a search bar labeled 'Search Term', a dropdown menu labeled 'By Crop', another dropdown menu labeled 'By Market Class', and an orange 'SEARCH' button. Below the search bar is a list of CDC varieties with their years. Below that is a section for 'Grower name' with details for 'Crop', 'Market Class', and 'Variety'. At the bottom is a section for 'Contact info (location, phone #, website)'.

Search Term  By Crop

By Market Class  **SEARCH**

**YEAR:** CDC GREENSTAR (2016); CDC IMPULSE CL (2016); CDC PROCLAIM CL (2016); CDC KERMIT (2014); CDC IMPULSE CL (2014); CDC PROCLAIM CL (2014); CDC PALMER (2014); CDC RAEZER (2013); CDC MARBLE (2013); CDC CONSUL (2013); CDC LEADER (2012); CDC AMARILLO (2012); CDC ROSIE (2012); CDC IMIGREEN CL (2011); CDC SAFFRON (2011); CDC HORNET (2010); CDC REDCLIFF (2010); CDC DAZIL CL (2010); CDC RUBY (2010)

**Grower name**

**Crop:** Chickpea, Lentil, Pea  
**Market Class:** Large Green Lentil, Desi Chickpea, Extra Small Red Lentil, French Green Lentil, Green Pea, Kabuli Chickpea, Medium Green Lentil, Small Green Lentil, Small Red Lentil, Yellow Pea  
**Variety:** CDC Proclaim CL, CDC Impulse CL, CDC Kermit, CDC Amarillo, CDC Consul, CDC Dazil CL, CDC Greenstar, CDC Hornet, CDC Imigreen CL, CDC Leader, CDC Marble, CDC Palmer, CDC Raezer, CDC Redcliff, CDC Rosie, CDC Ruby, CDC Saffron

Contact info (location, phone #, website)

# Select Seed Growers Directory

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- Only Select Growers that have signed the Privacy Policy section of the order form are on the list

**RELEASE OF PERSONAL INFORMATION: Please read and sign the following:**

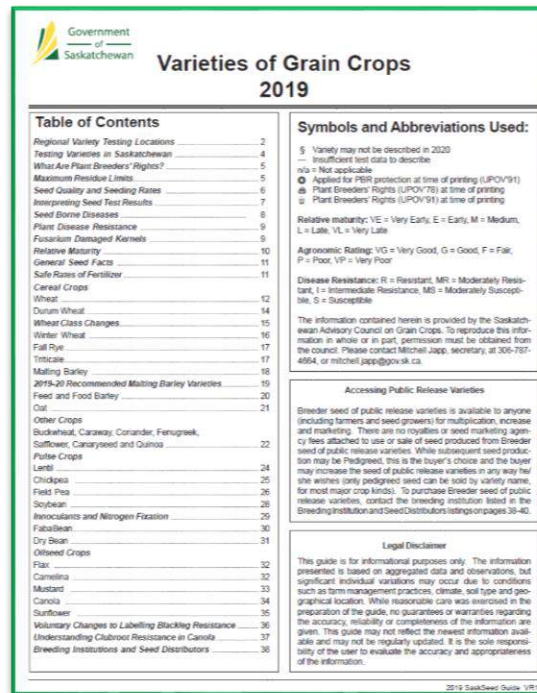
*I understand that in giving my signature, I give consent to SPG to use my personal information as described in the accompanying SPG Policies and Procedures (updated December 2018) document. I understand that by not providing my signature, SPG is not permitted to use my personal information and that doing so does not affect my ability to order seed through the Variety Release Program.*

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

# Pulse Crop Seeding and Variety Guide

- SPG is no longer printing the 'Pulse Crop Seeding & Variety Guide'
- In collaboration with Saskatchewan Advisory Council on Grain Crops, pulse agronomy information is now included in the Varieties of Grain Crops 2019
- Published in the SaskSeed Guide 2019



Government of Saskatchewan  
**Varieties of Grain Crops 2019**

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**Symbols and Abbreviations Used:**

§ Variety may not be described in 2020  
— Insufficient test data to describe  
n/a = Not applicable  
Ⓢ Applied for PBR protection at time of printing (LPOV/91)  
Ⓟ Plant Breeders' Rights (LPOV/78) at time of printing  
Ⓠ Plant Breeders' Rights (LPOV/91) at time of printing

Relative maturity: VE = Very Early, E = Early, M = Medium, L = Late, VL = Very Late

Agroclimic Rating: VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor

Disease Resistance: R = Resistant, MR = Moderately Resistant, I = Intermediate Resistance, MS = Moderately Susceptible, S = Susceptible

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**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 the seed of public release varieties in any way he/she wishes (only pedigreed seed can be sold by variety name, for most major crop kinds). To purchase Breeder seed of public release varieties, contact the breeding institution listed in the Breeding Institutions and Seed Distributors listings on pages 38-40.

**Legal Disclaimer**

This guide is for informational purposes only. The information presented is based on aggregated data and observations, but significant individual variations may occur due to conditions such as farm management practices, climate, soil type and geographical location. While reasonable care was exercised in the preparation of the guide, no guarantee or warranties regarding the accuracy, reliability or completeness of the information are given. This guide may not reflect the newest information available and may not be regularly updated. It is the sole responsibility of the user to evaluate the accuracy and appropriateness of the information.

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# THANK-YOU!

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