



# W.A. GRAIN & PULSE SOLUTIONS

*"Impossible is a word to be found only in the dictionary of fools"*  
*Napoleon Bonaparte*

# History on PEI

- 2014/15 – Trials with fababeans.
- 2016 – 650 acres of CWES wheat, peas, and fababeans.
- 2017 – 6,000 acres of peas & faba beans.
- 2018 – 7,000 acres of peas & black beans.
- 2019 – 8,000 acres of peas & black beans.
- 2020 - Peas, Beans (black & faba), Mustard, Rye, Buckwheat?.

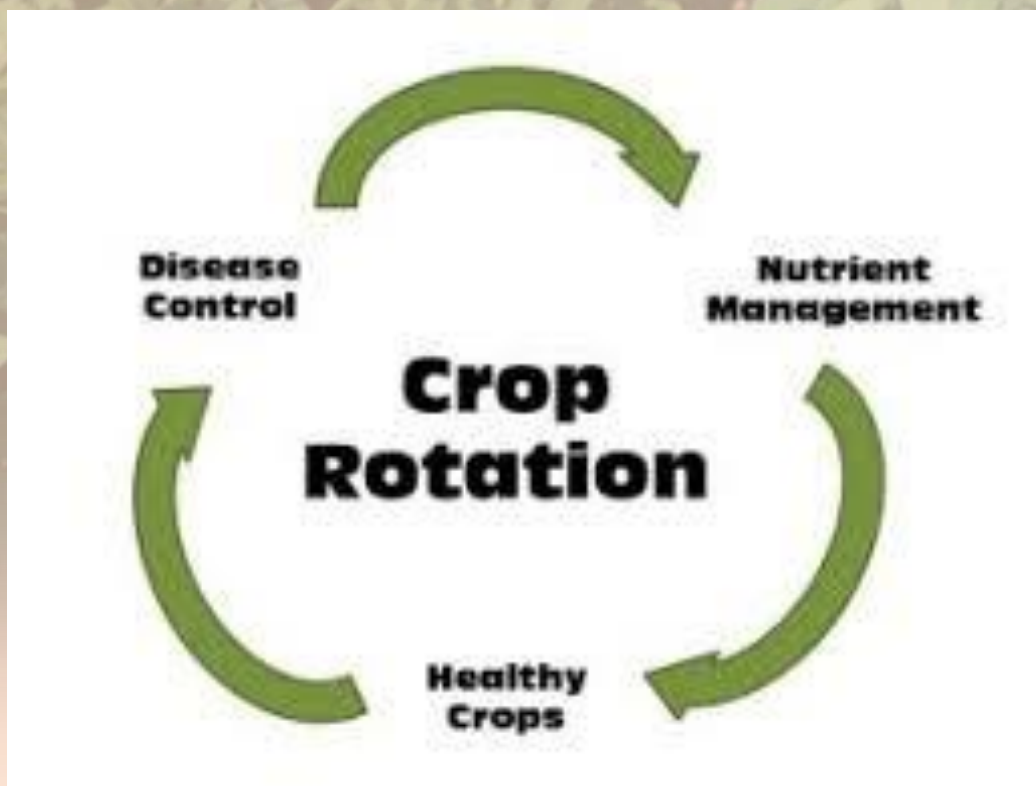
# What is Crop Diversity?

Crop diversity is the **foundation of agriculture**, enabling it to **evolve** and **adapt** to meet the **never-ending challenge** of **sustainably producing** sufficient and nutritious **food** for an increasing population.





# What do your rotation crops do for your operation?



# Crop Diversity

- A Nice Thing If You Can Get It
  - And You Can Get It If You Try.
  - Not Impossible!
- Crop diversity can lead to greater:
  - Productivity.
  - Profitability.
  - Environmental / soil health.
- Break disease cycles.
- Extended crop rotations can also:
  - Reduce weed, insect, and disease pressure.
  - Which can help cut the costs of inputs like herbicides and insecticides.
- Generate revenue where before there was none.
- Flexibility for your operation.

# Rotation Crop Focus

- Peas – Green & Yellow





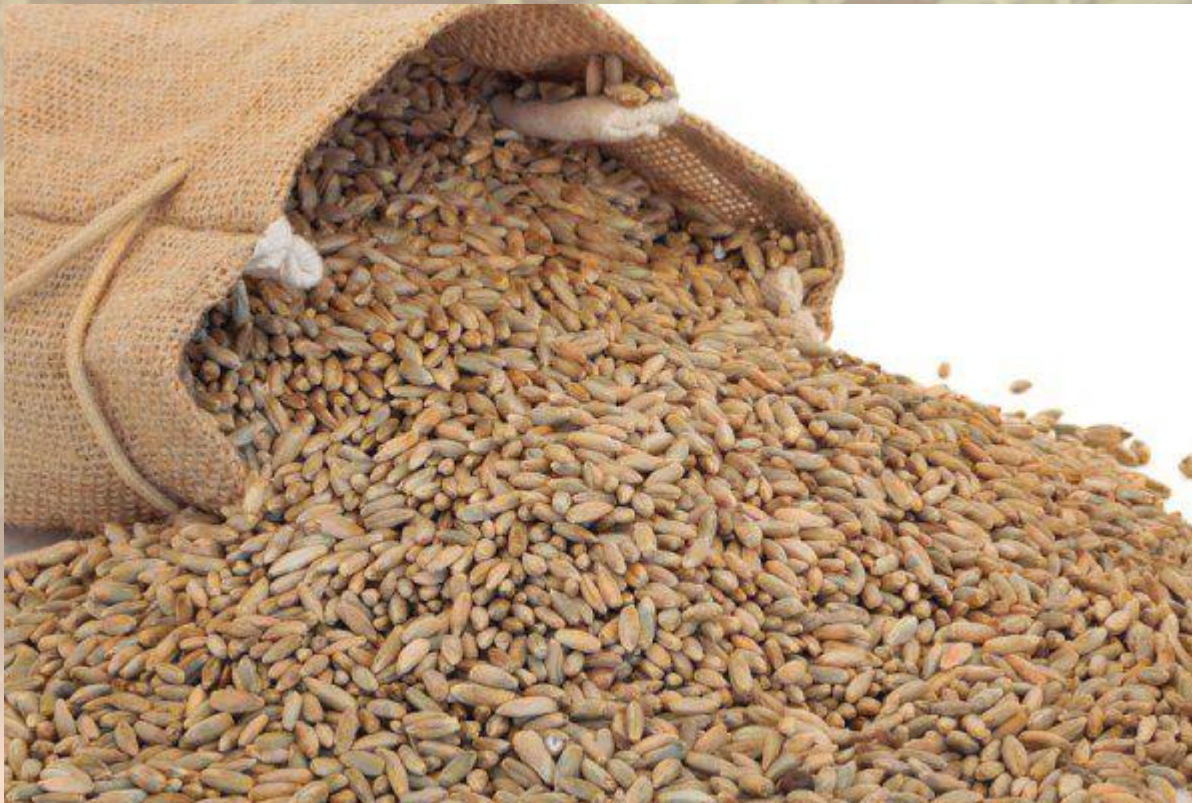
# Rotation Crop Focus

- Black Beans



# Rotation Crop Focus

- Rye





# Rotation Crop Focus

- Mustard – Brown Centennial





# Rotation Crop Focus

- Buckwheat???





# Growing Peas



# Growing Peas

- Generate early cash flow.
- Add diversity.
- Increase organic matter.



# Growing Peas

- 90 Day Crop
- Very little N requirement.
  - Peas fix their own N when inoculated.
- SASKPULSE - Peas inoculated with the proper Rhizobium strain have the potential to fix up to **80 per cent** of nitrogen required through nitrogen fixation.



# Growing Peas

- Ascochyta possibility, sclerotinia?
  - So far diseases have not been an issue due to dry summers.
  - A fungicide should be budgeted.
- Pesticides
  - Peas are sensitive and require proper application and timing.





# Growing Peas

- Early seeding
  - Peas can be seeded into cool soils.
  - Should be first crop in, in most cases.
  - Early flowering can beat the heat.



- Recommended seeding depth is 1 ½ - 2 ½ inches.

# Growing Peas

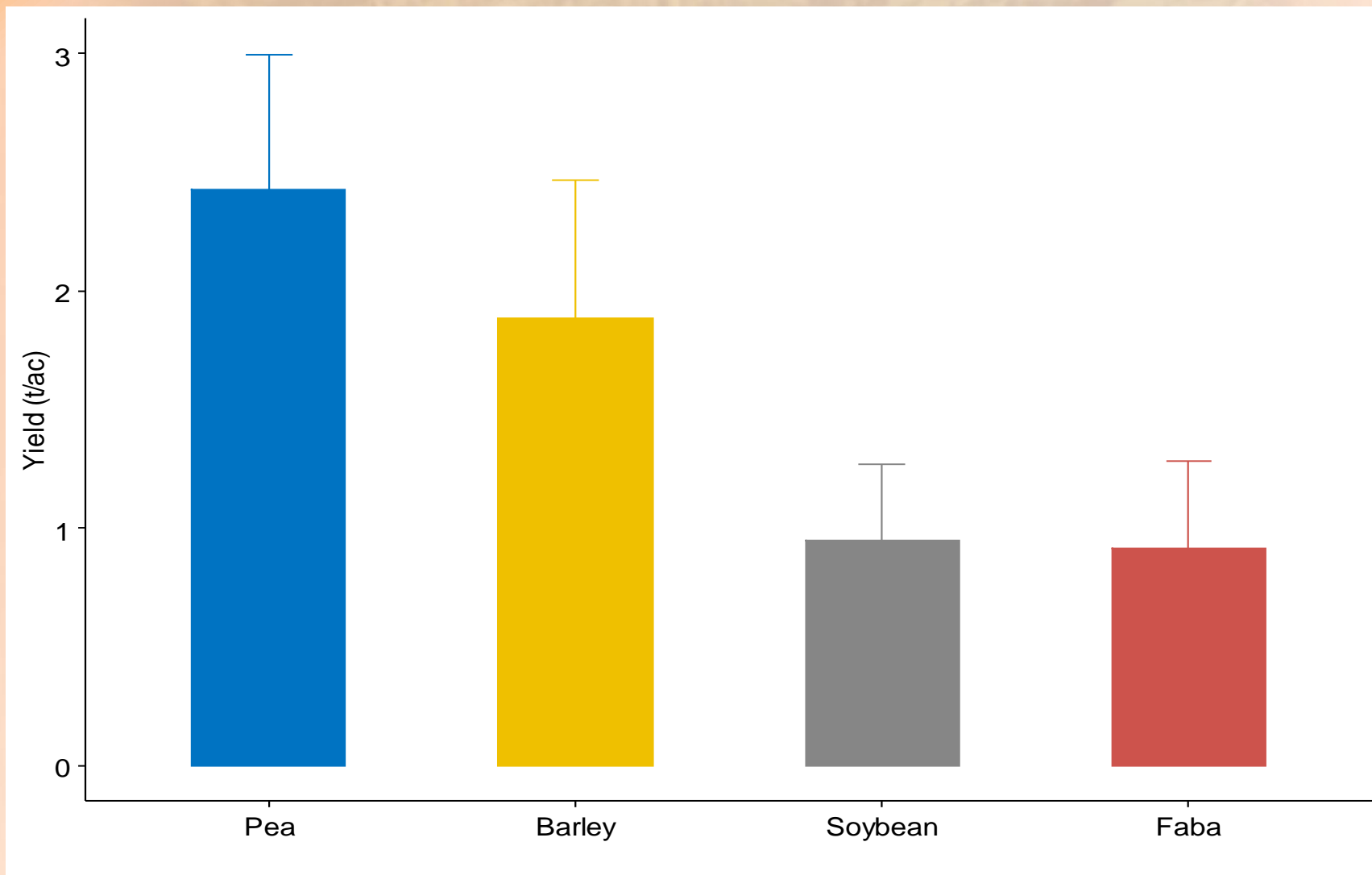
- Early harvest
  - Harvest should start early-mid August.
  - In a normal seeding year, should be done by mid September at the latest.
  - Lots of time to decide on fall crop.

- Residual N





# WW following....



**Agri-Food Canada Aaron Mills & team**

# Environmental Product Declaration



- [www.environdec.com/en/Detail/epd1047](http://www.environdec.com/en/Detail/epd1047)
- **Peas, like other pulses, play a major role in improving environmental sustainability and mitigating climate change...**
  - due to their biological nitrogen fixation capability
  - that results in a lower fertilizer requirement
  - and a lower environmental impact in a cropping system.



# Intercropping



# Intercropping

- Peas & Mustard so far.
- 6-10lbs Mustard with 220lbs peas.
- Great weed suppression at 6lbs.
- 6lbs minimum!



# Intercropping

- You will need a bin.
- Unless you blow the mustard out the back for an instant cover crop.
  - No effort cover crop.
- Peas & rye grass intercropping.
  - Great option for year of turf type rye grass and income..

# Contracting

- Weekly price updates.
- Contracts Available for:
  - Green Peas \$320
  - Yellow Peas \$270
  - Black Beans \$650
  - Rye \$200
  - Mustard. \$685
  - Fababeans \$275
- Minimum Price Contracts



# Pea Seed Program

- Book 2020 acres\*, pick-up and pay for your Seed before January 31, 2020
  - 10% Discount!
- Book 2020 acres\* before January 15th, 2020
  - 3% Discount!
- \*Acres will be considered booked with the receipt of a signed contract. Discounts cannot be combined.

# Research Projects

- Ag Canada/WAG – completing 3 year research into best practices of pesticide/fungicide applications, seeding rates/depth, fertility.
- Program with ECODA for quantifying rotational benefits of pulses, mustard, both intercropped and standalone, for potatoes.
- AGC yield and variety tests throughout Maritimes.
- Fababean silage research in NFLD.
- WAG's farm – rotations and variety tests, beans, lentils, chickpeas, etc.



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Why not generate  
revenue on everything  
that you plant?

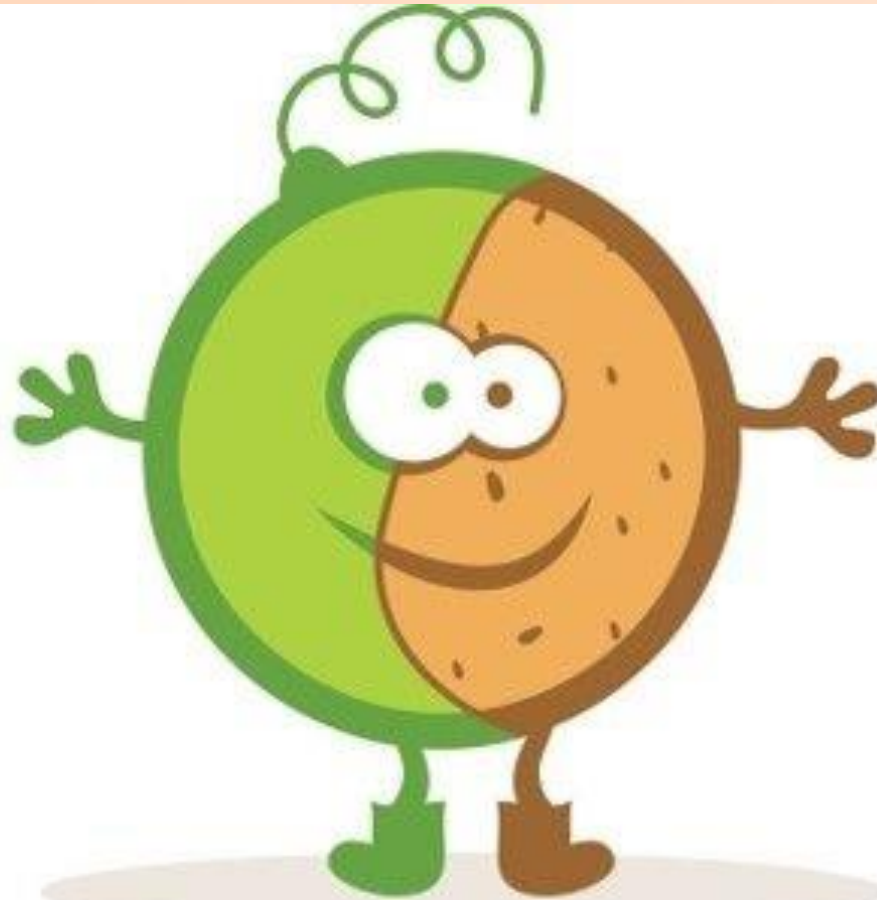


# Potential Rotation

- Potatoes Obviously.
- Peas – Cash / break Crop good for soil health.
- Rye or Winter Wheat - Another Cash Crop that benefits from Pea residual N.
- Buckwheat or Mustard cover / cash crop.
- Back to Potatoes.



# Potatoes & Peas





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