

Reaching 52 bu/ac of Canola by 2025

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KEEP IT COMING

Who is the Canola Council of Canada?

Growers



Exporters



Life Science






Processors

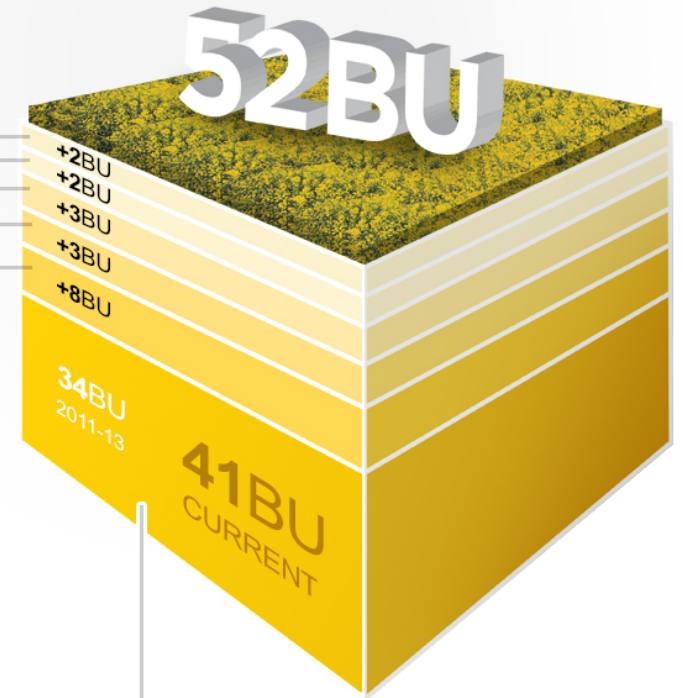


52 by 2025: How we'll get there

OUR TOOLS FOR INCREASING YIELDS:

-  **Harvest Management** — **+2BU**
-  **Integrated Pest Management** — **+2BU**
-  **Fertility Management** — **+3BU**
-  **Plant Establishment** — **+3BU**
-  **Genetic Improvements** — **+8BU**

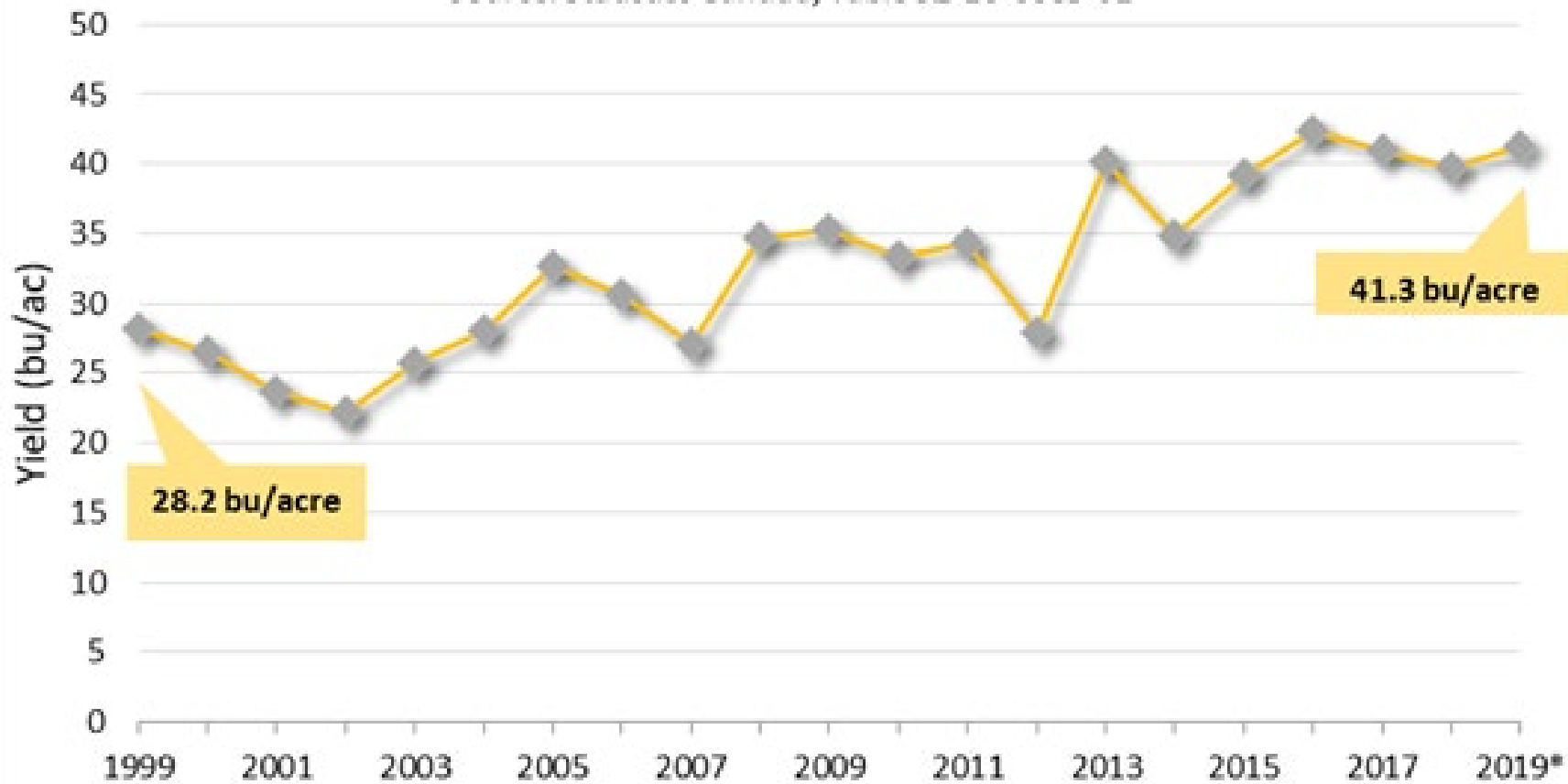
3-YR AVERAGE YIELDS — **34BU**
(2011-13)



41BU
CURRENT
(2016-18)

20-Year Canola Yield Trend

Source: Statistics Canada, Table 32-10-0359-01



*Estimate as of Sep 12, 2019

Genetic Potential

- 2019 Canola Performance Trials
 - Average plot yield = 58.8



- Why the difference from Stats Can?
 - Reduced variability...field selection
 - Agronomic management

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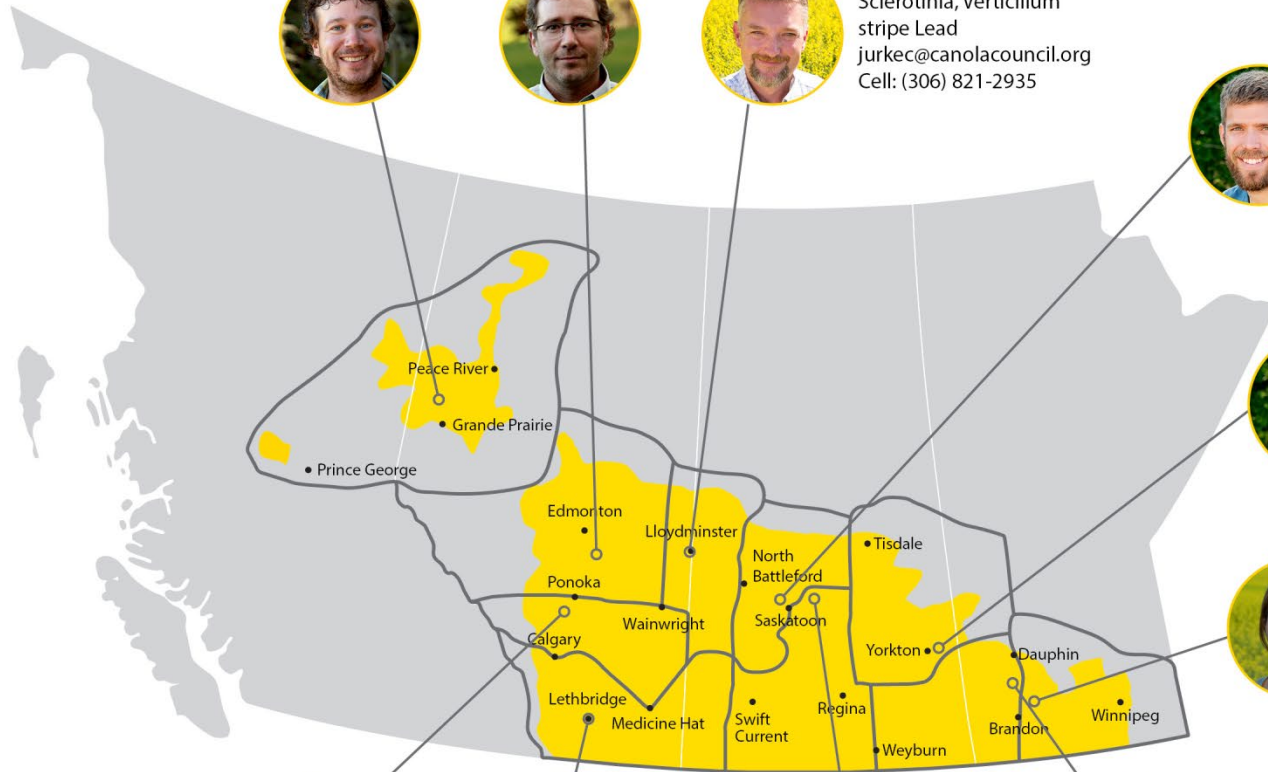
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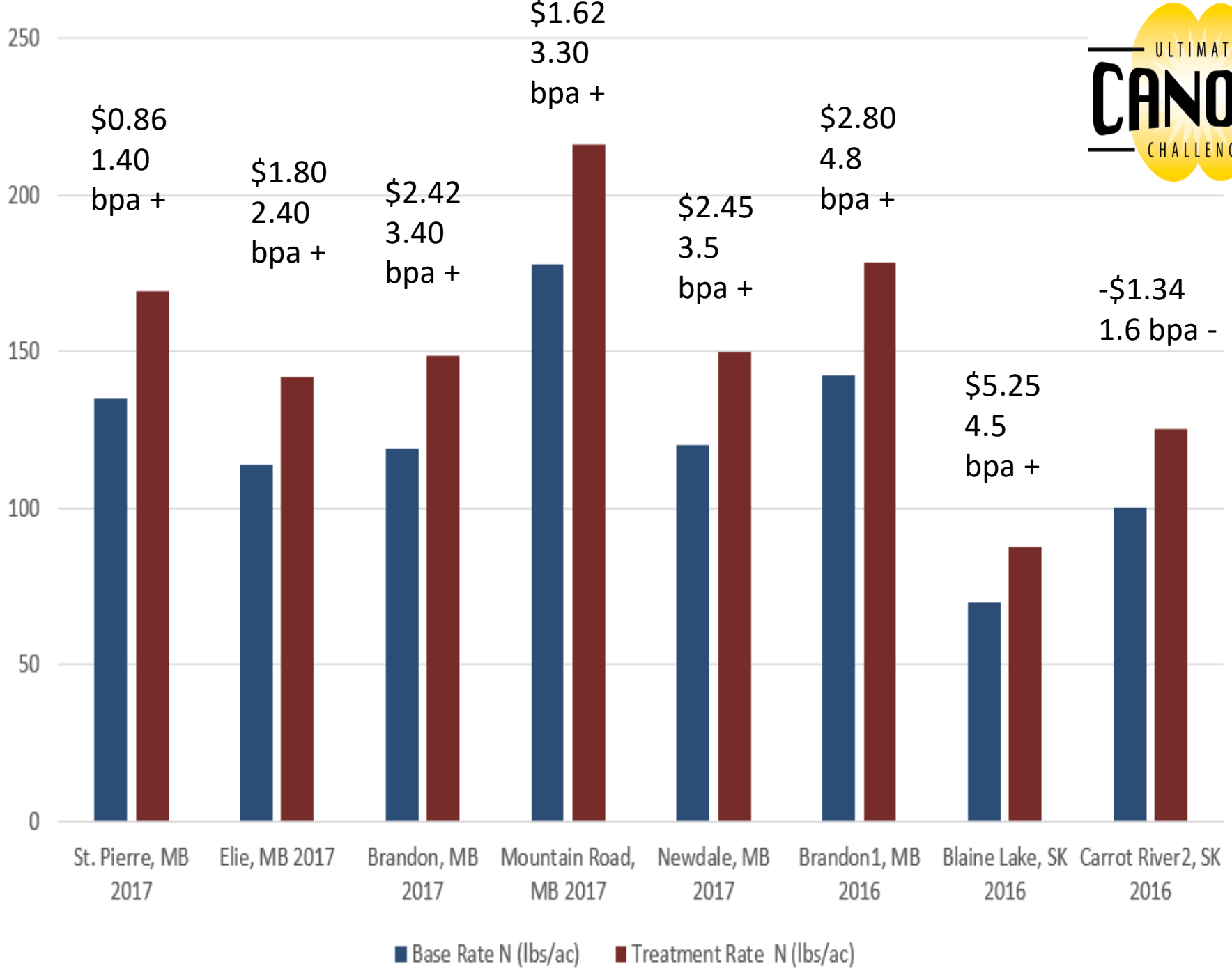
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Priority 1: Fertilizer

- Fertilize for an ambitious yield target
 - 45-50, 50- 55...
- Re-evaluate your right rate
 - Soil test
- Additional fertilizer is a low risk investment
 - Marginal increases to support yield





Brandon 2016 example



Base rate: 119 lbs / ac (61.98 bpa)

Treatment rate: 149 lbs / ac (65.37 bpa)

Yield Improvement: 3.4 bpa +

Residual N: 15 lbs (+ 4% OM *not accounted for*)

$$134 / 61.98 = 2.16 \text{ lbs / bushel}$$

$$164 / 65.37 = 2.5 \text{ lbs / bushel}$$

Marginal Cost: 30 lbs/ac * \$0.50/ lb = **\$15.00 / ac**

Marginal Return: \$10.50 / bu * 3.4 bpa = **\$35.60 / ac**

Profit: \$20.6 / ac

Marginal Revenue: \$2.42 / \$1 N



Priority 2: Aim for 75% Seed Survival

- Target a plant density of 5 - 8 plants ft²
- Typically 50 – 60% seed survival
- Environmental conditions are largely out of our control...
 - But, manage those situations that are within their control
 - consistent seed depth/seed-to-soil contact
 - 0.5-1” depth
 - Limit seed-placed fertilizer
 - seed timing (into somewhat warmer soils)
- **Take Plant Counts!**



Priority 3: Pick the Right Variety for the Field

- Base variety decisions on the best traits for each field
- Yield is always important, but give strong consideration to other traits
 - Disease resistance
 - i.e. clubroot, blackleg
 - Harvest management
 - Maturity

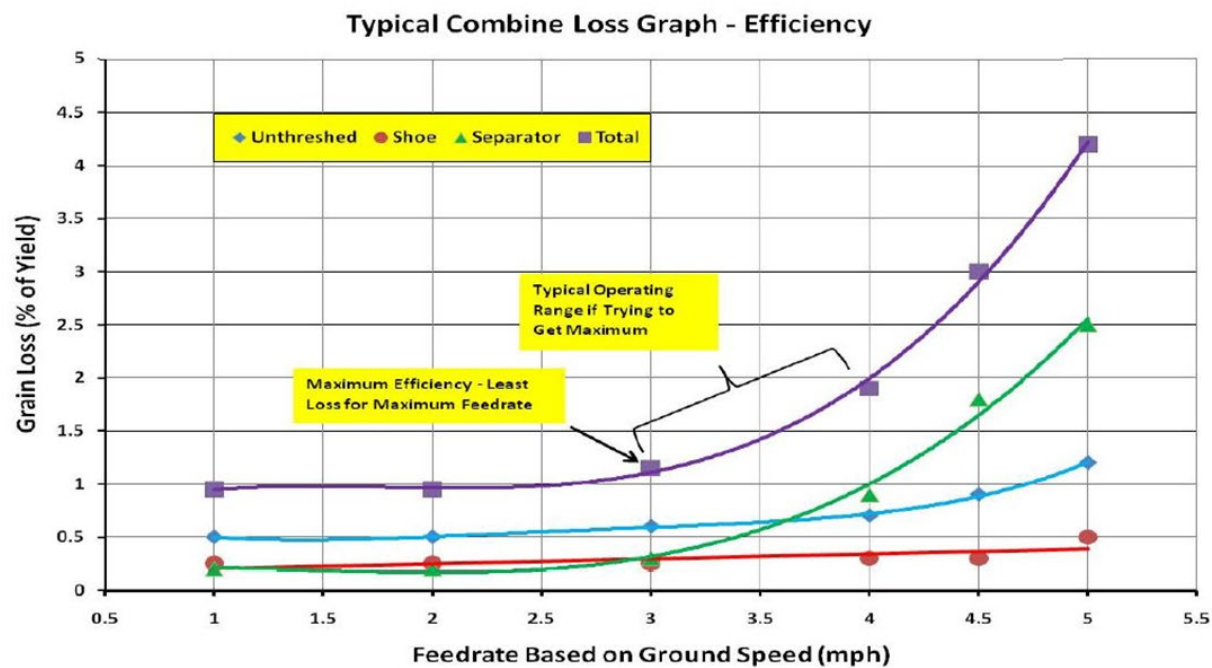
Priority 4: Protect Yields from Sclerotinia

- Sclerotinia stem rot remains the most costly canola disease across Western Canada
 - Keep sclerotinia infection less than 5%
- Challenge of making fungicide application decision
 - Conditions supporting high yields also favour sclerotinia
 - New technology and tools (sensors, petal tests, weather stations, genetic resistance) can help
 - All predictive tools have limitations
 - If in doubt, lean toward spraying
 - Leave a checkstrip!



Priority 5: Aim for Less than 2% Harvest Loss

- Harvest losses can be 5% or higher...
- Routinely measure and quantify losses, make the necessary adjustments
- Do not rely on loss monitors



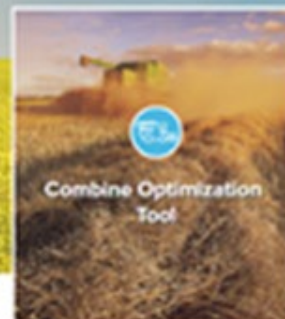
Minimize your **risk** and maximize your **profit** with this suite of **canola tools**



Learn how to set a target plant density in plants/m² or plants/ha that fits with your individual field conditions, abilities and appetite for risk



Calculate your optimum canola seeding rate or use this calculator after seeding to understand your emergence



Optimize your combine settings to improve canola harvest



Thank You!

- Questions?

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