

Clubroot and the Importance of Canola in Canada

Outline

- 1. Introduction
- 2. Canadian Canola Production
- 3. The Economics of Canola
- 4. Clubroot and Canola Industry
- 5. Conclusion





Introduction

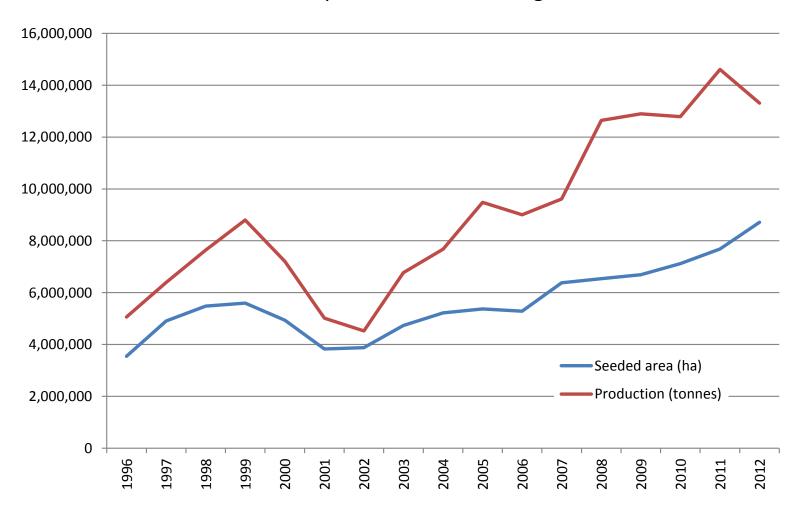




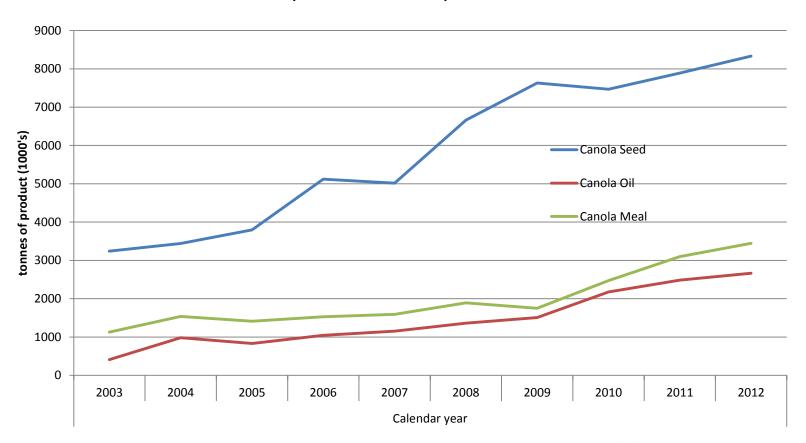


Canadian Canola Production

Canola production and acreage

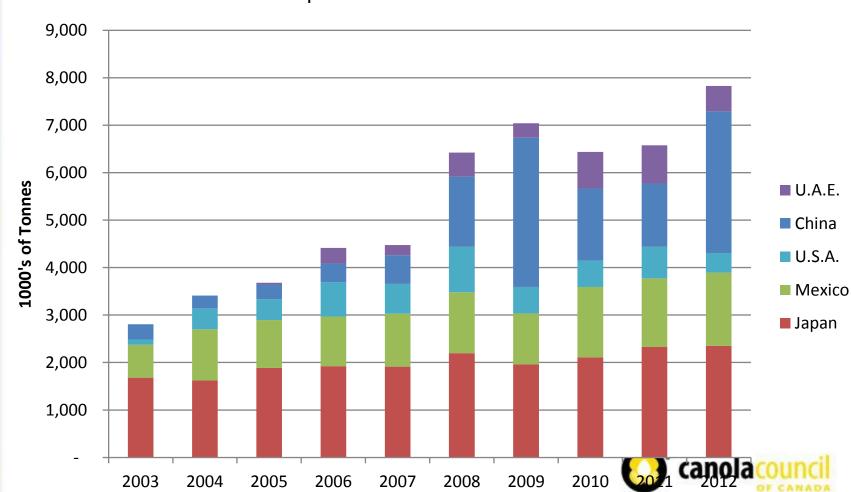


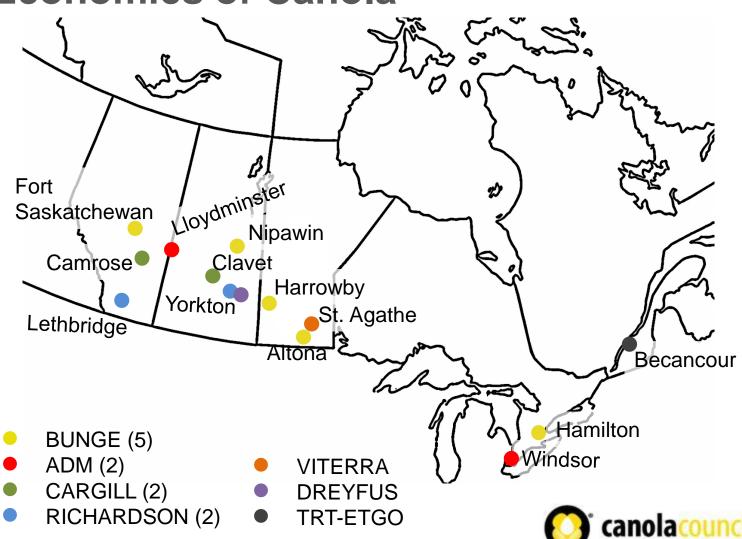
Exports of canola products





Exports of canola seed

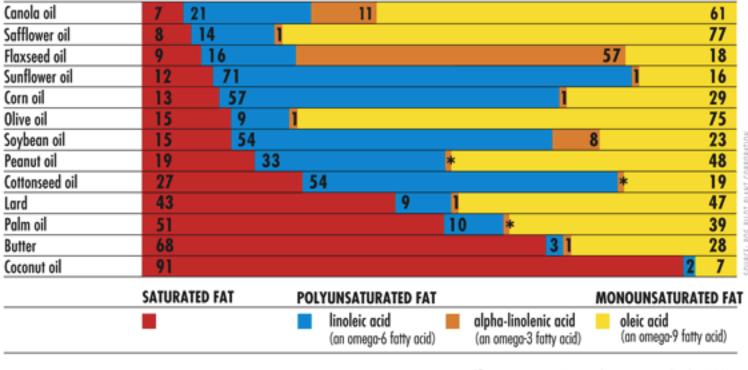




Value of Canola Oil – Food & Health

Comparison of Dietary Fats

DIETARY FAT



*Trace

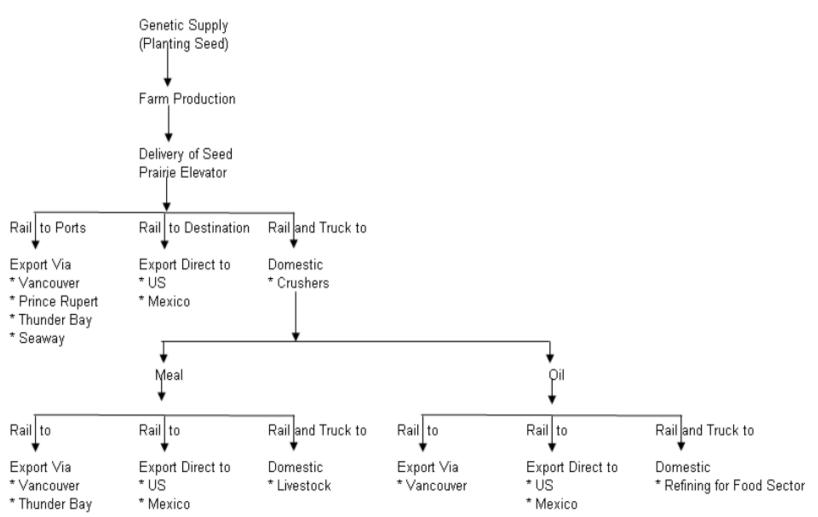
Fatty acid content normalized to 100%

For the treatment of existing cardiovascular disease, canola oil has been recommended for achieving daily omega-3 fat requirements of 1 g/day In 2006, the U.S. FDA authorized the following qualified health claim for canola oil: "Limited and not conclusive scientific evidence suggests that eating about 1 tablespoons (19 grams) of canola oil daily may reduce the risk of coronary heart disease due to the unsaturated fat content in canola oil. To achieve this possible benefit, canola oil is to replace a similar amount of saturated fat and not increase the total number of calories you eat in a day"



Canola Value Chain - Canada

Economics of Canola



TOTAL' ANNUAL ECONOMIC IMPACT OF CANOLA INDUSTRY SECTORS IN CANADA

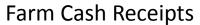
(isverage 2007-2009 in Canadian dollars)

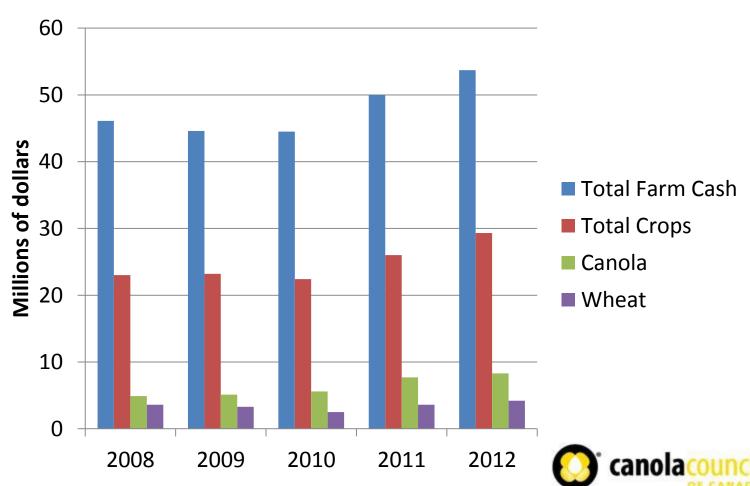


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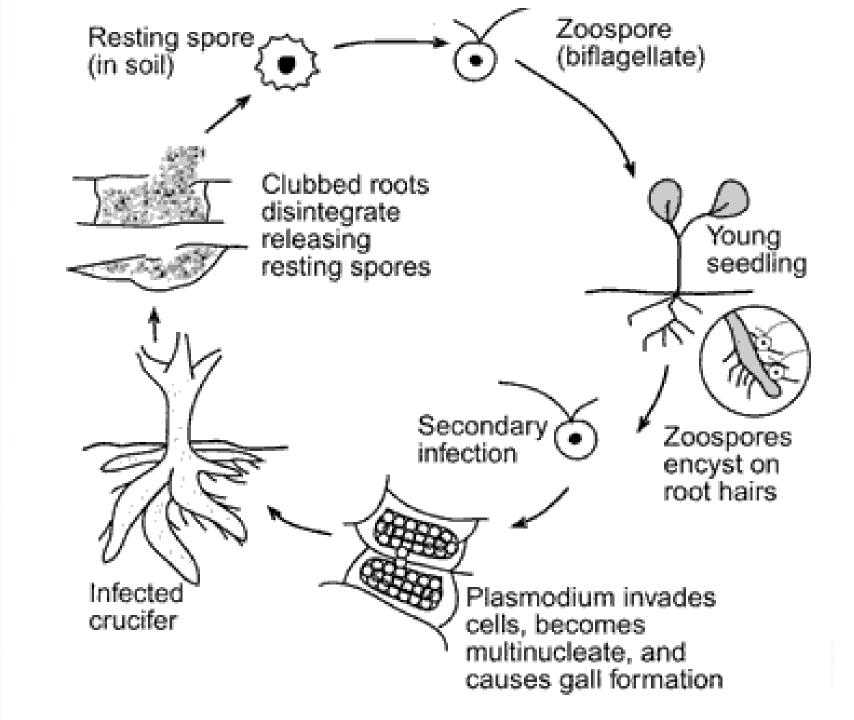


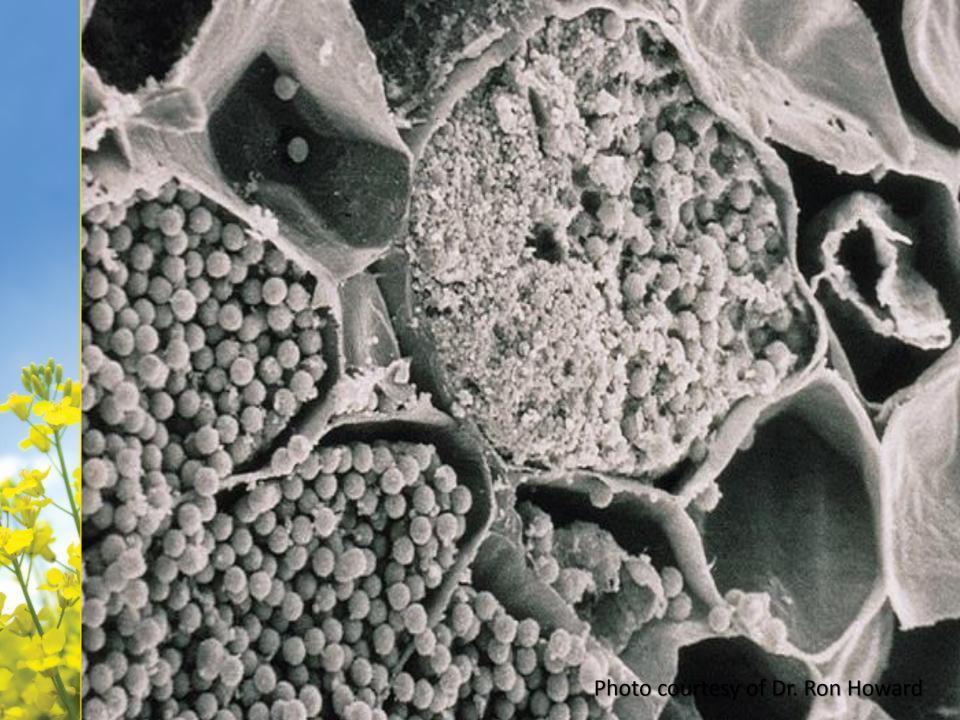


Clubroot and Canola Industry









Clubroot and Canola Industry

Challenges for canola growers:

- 1. Once established, cannot be eradicated
- 2. Prevention strategies are very expensive
- 3. Regulation of the disease is inconsistent and may actually stimulate pathogen spread
- 4. Relying mainly on clubroot resistance in canola varieties which may not be a durable solution





Clubroot and Canola Industry

Opportunities that canola growers have now:

- 1. Clubroot resistance
- 2. Technologies to identify the disease
- 3. Better understanding
 - > How disease is spread
 - > What current practices actually work
 - What environmental conditions stimulate the disease
 - > What agronomic practices stimulate the disease



Clubroot, the CCC and the Canola Industry

The 4-step clubroot control plan:

- 1. Prevent clubroot from establishing
- 2. Identify clubroot early
- 3. Develop a clubroot management plan
- 4. Work with your municipality





Successes

Clubroot Risk Mitigation Initiative has been a huge success:

- collaborative research model has work very well.
- the body of research has helped canola growers immensely.

Future looks brighter.

 new research on resistance, host-pathogen interactions, chemical controls, and pathogen eradication are exciting





