



# Direct Seed and Oilseed Policy

## International, National and State Perspectives

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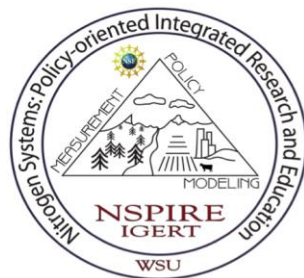


# Role of policy in the growth of canola and no-till in Canada and Australia

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Oilseed and Direct Seed Cropping Systems Conference



# Canola production under direct seeding

**Southwestern Oklahoma Sees Rise In No-Till Production  
Everett Brazil, Feb 7, 2013. Farm Progress.**

**“Crop rotation and no-till go hand-in-hand as producers see successes in avoiding the plow.”**



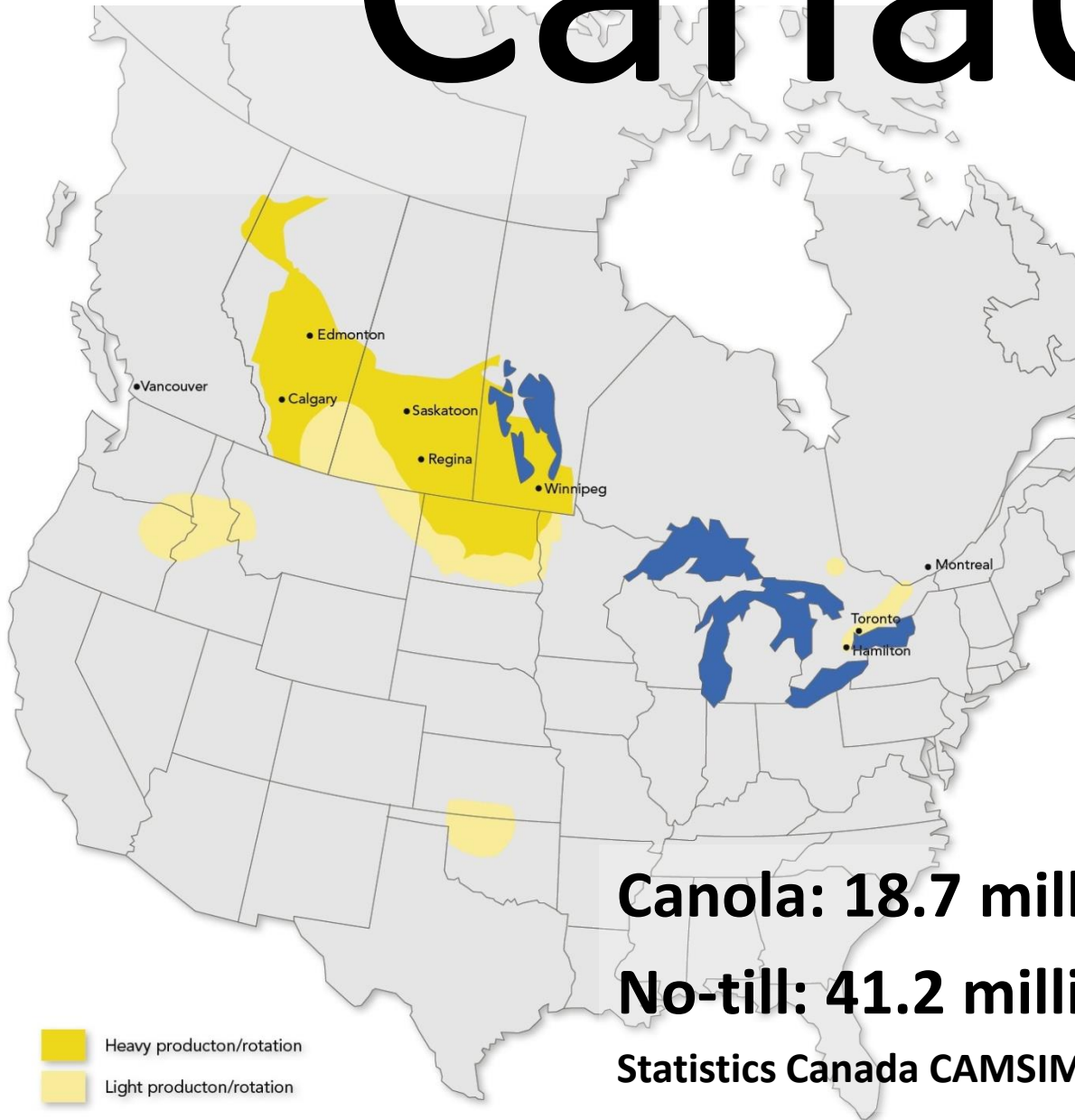
Robert Williams, checks his canola crop in winter wheat stubble in a field near Gould, Okla.

# Outline

- Objective: To identify public policies aiding oilseed production and soil conservation practices
- Focus: Canada and Australia
  - Two important dryland wheat regions
  - Canola common in rotation
  - High adoption of no-till land preparation



# Canada



Map Canola Council Canada

**Canola: 18.7 million acres in 2011**

**No-till: 41.2 million acres in 2011**

**Statistics Canada CAMSIM tables 001-0010 and 004-0010**

# Pre-1960's

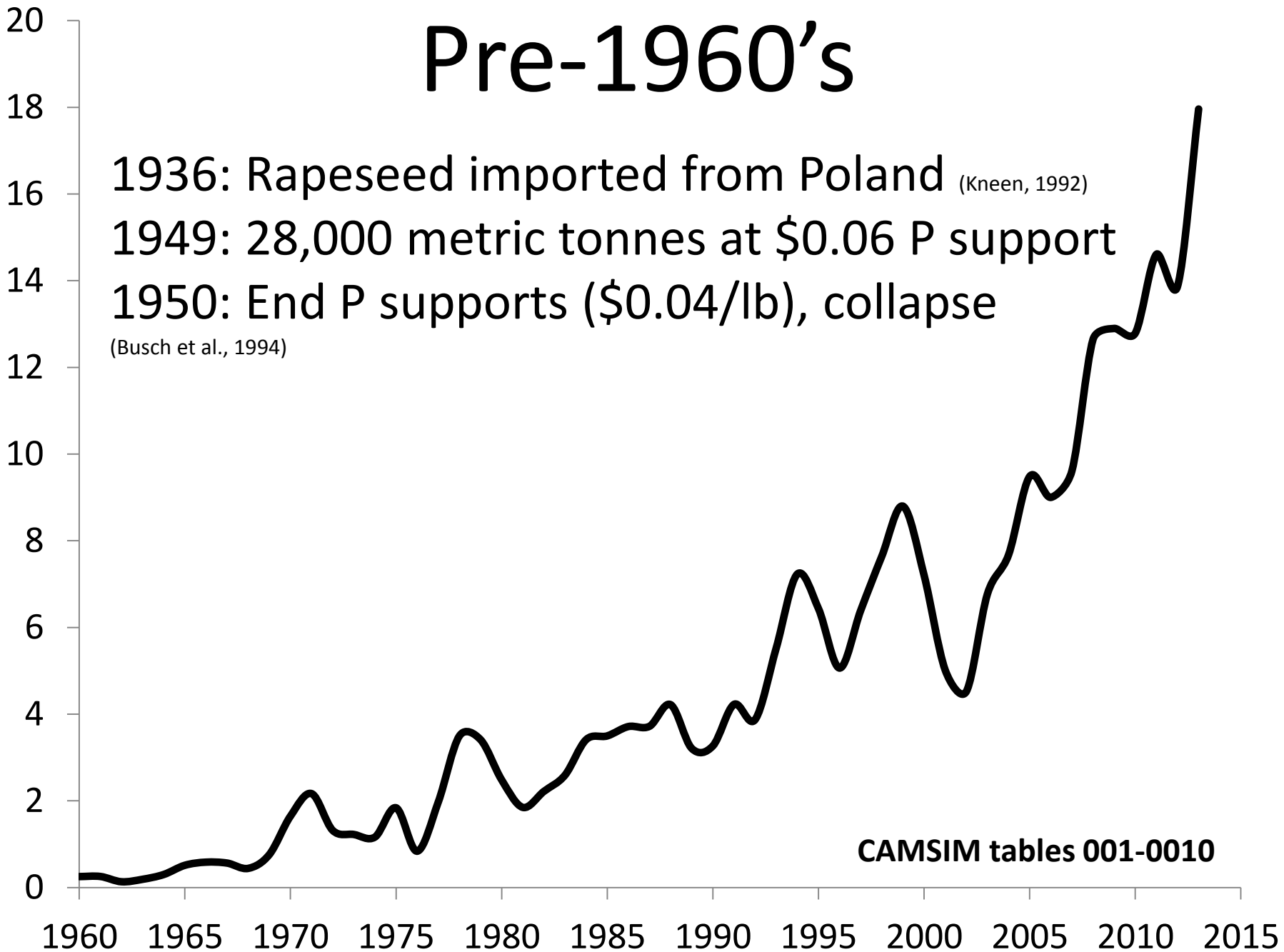
1936: Rapeseed imported from Poland (Kneen, 1992)

1949: 28,000 metric tonnes at \$0.06 P support

1950: End P supports (\$0.04/lb), collapse

(Busch et al., 1994)

Million metric Tonnes



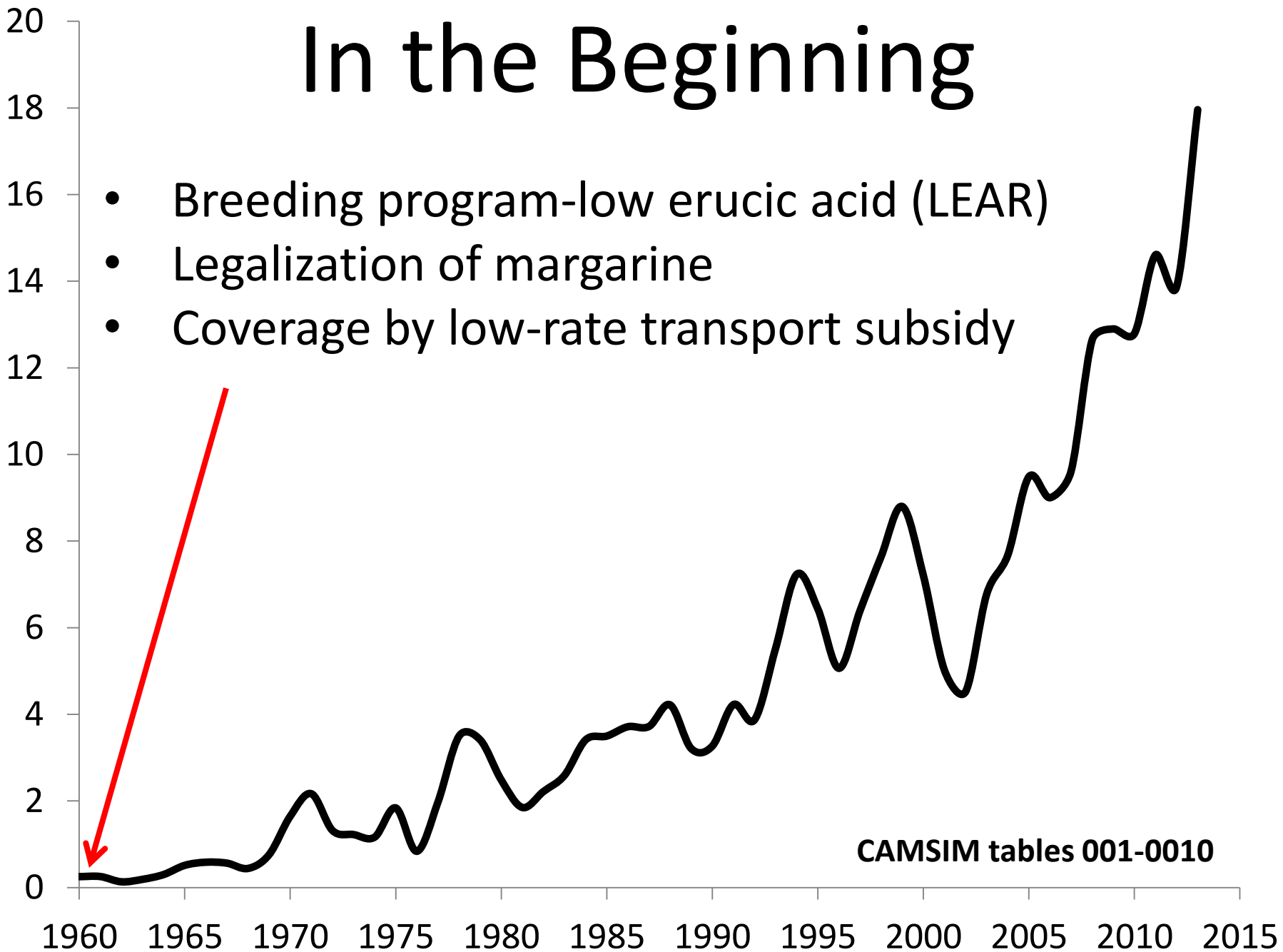
CAMSIM tables 001-0010



# In the Beginning

- Breeding program-low erucic acid (LEAR)
- Legalization of margarine
- Coverage by low-rate transport subsidy

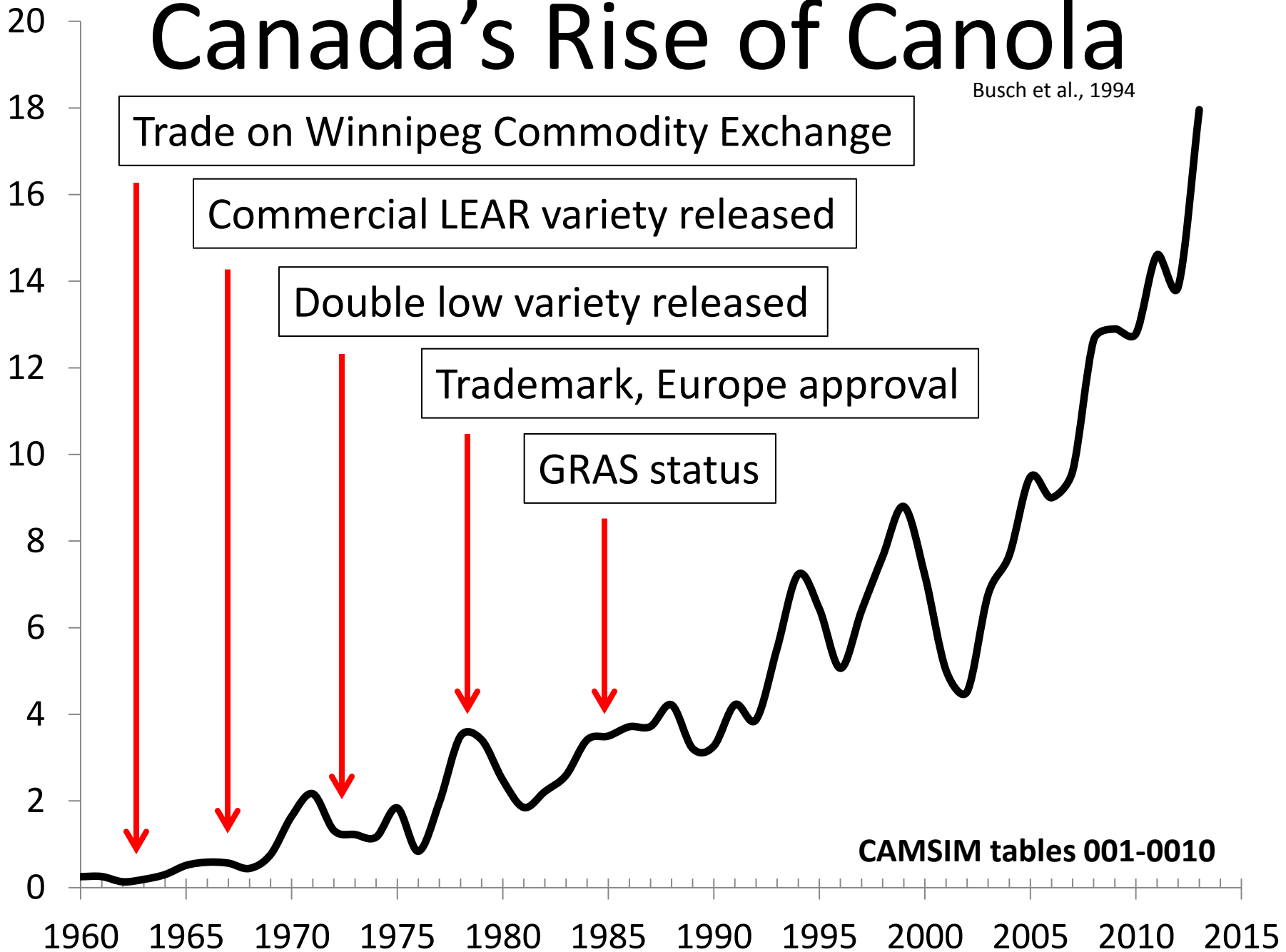
Million metric Tonnes



# Canada's Rise of Canola

Busch et al., 1994

Million metric Tonnes



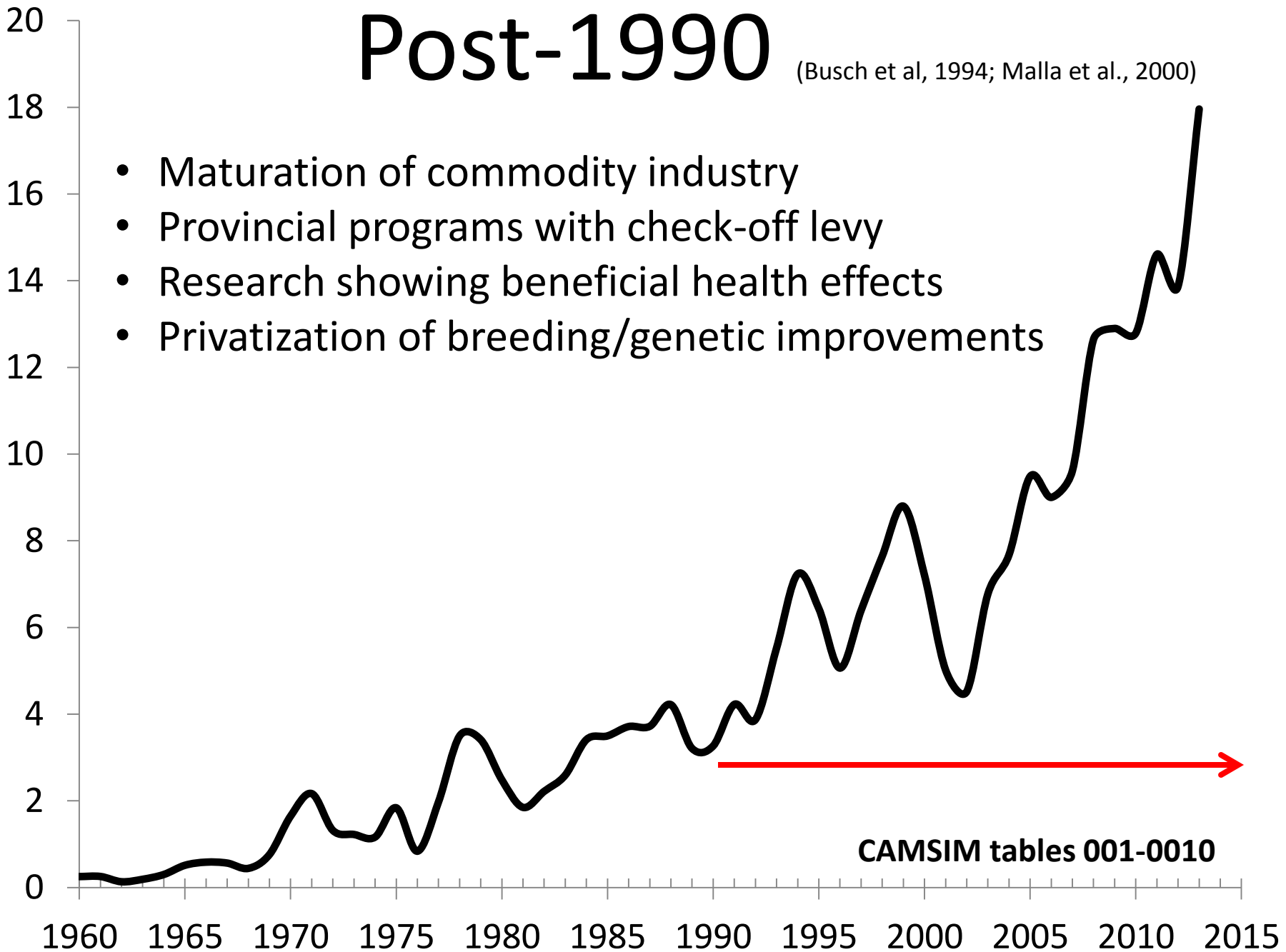


# Post-1990

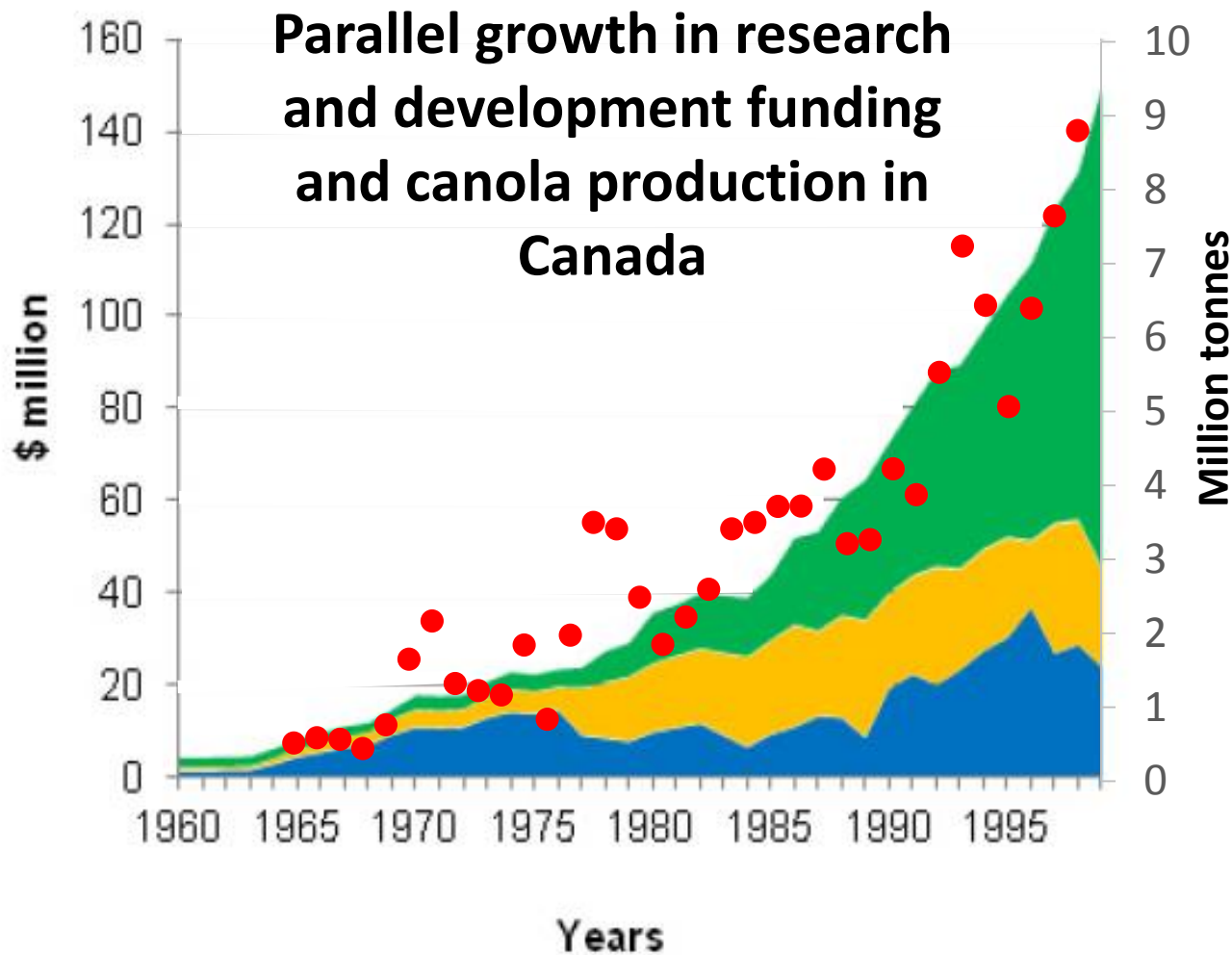
(Busch et al, 1994; Malla et al., 2000)

- Maturation of commodity industry
- Provincial programs with check-off levy
- Research showing beneficial health effects
- Privatization of breeding/genetic improvements

Million metric Tonnes



CAMSIM tables 001-0010



■ Public basic R&D  
■ Private applied R&D

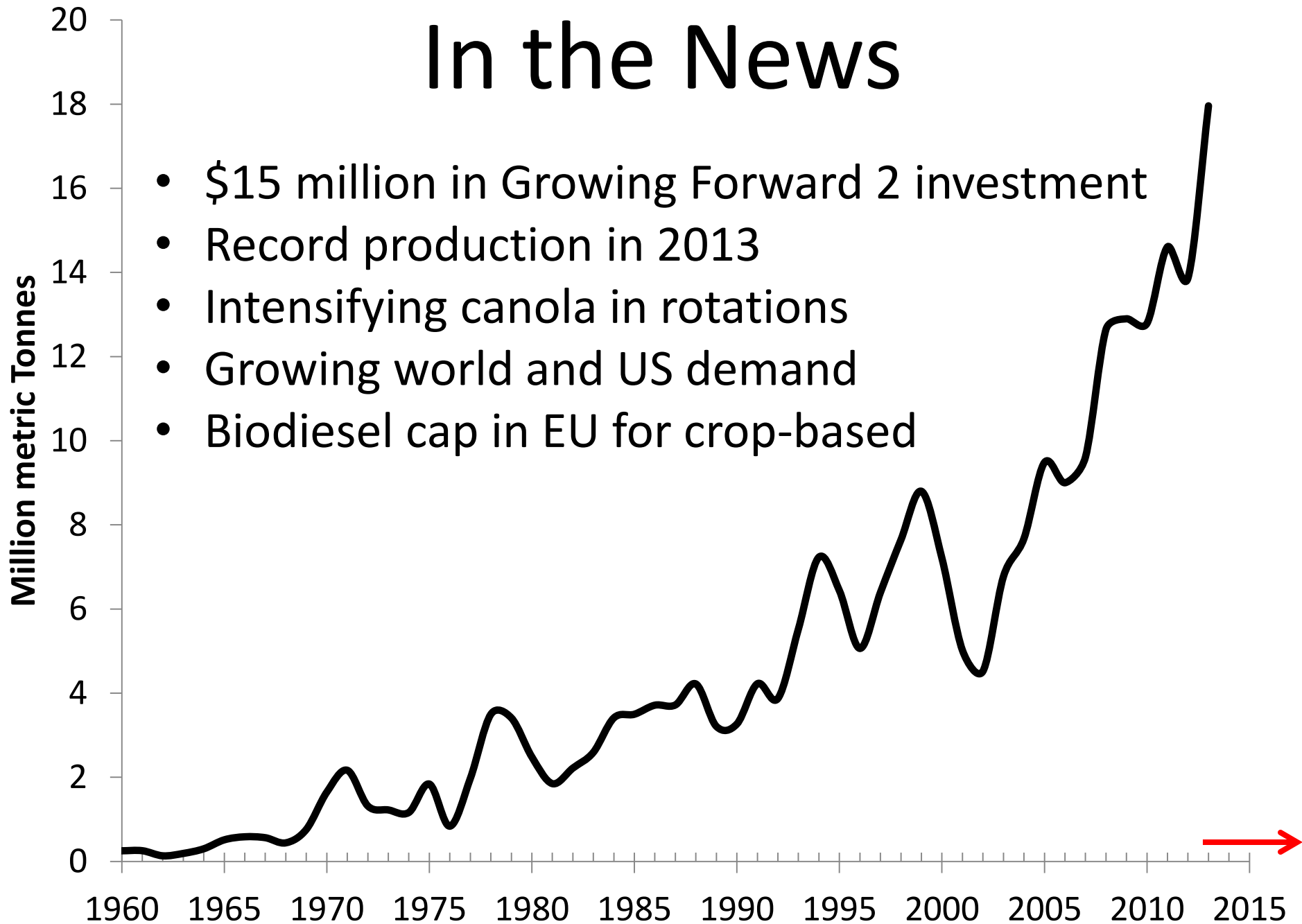
■ Public applied R&D  
● Millions of tonnes canola

(Gray et al., 2001)

(Statistics Canada. CANSIM database. 2000)

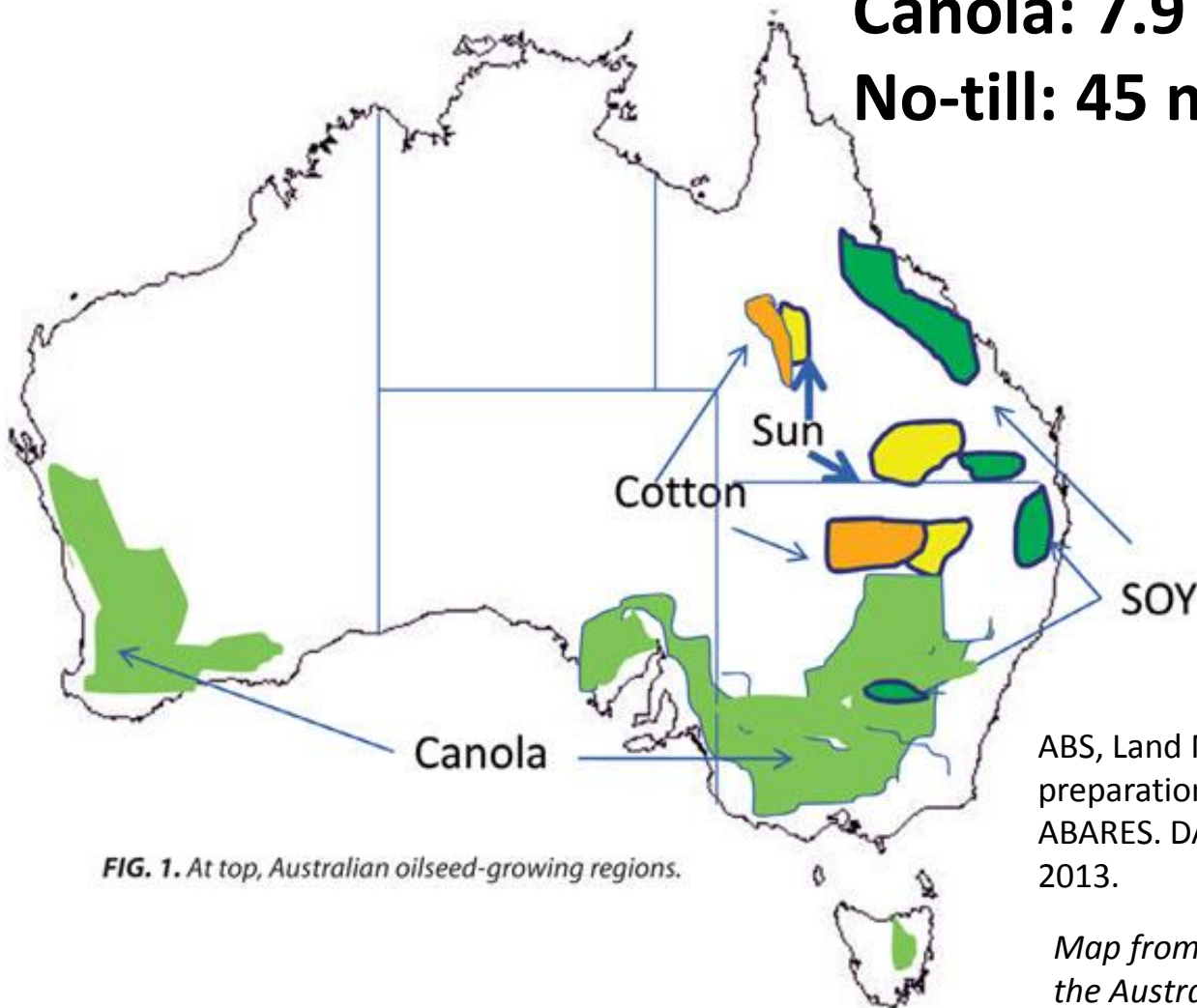
# In the News

- \$15 million in Growing Forward 2 investment
- Record production in 2013
- Intensifying canola in rotations
- Growing world and US demand
- Biodiesel cap in EU for crop-based



# Australia

**Canola: 7.9 million acres in 2011**  
**No-till: 45 million acres in 2011**



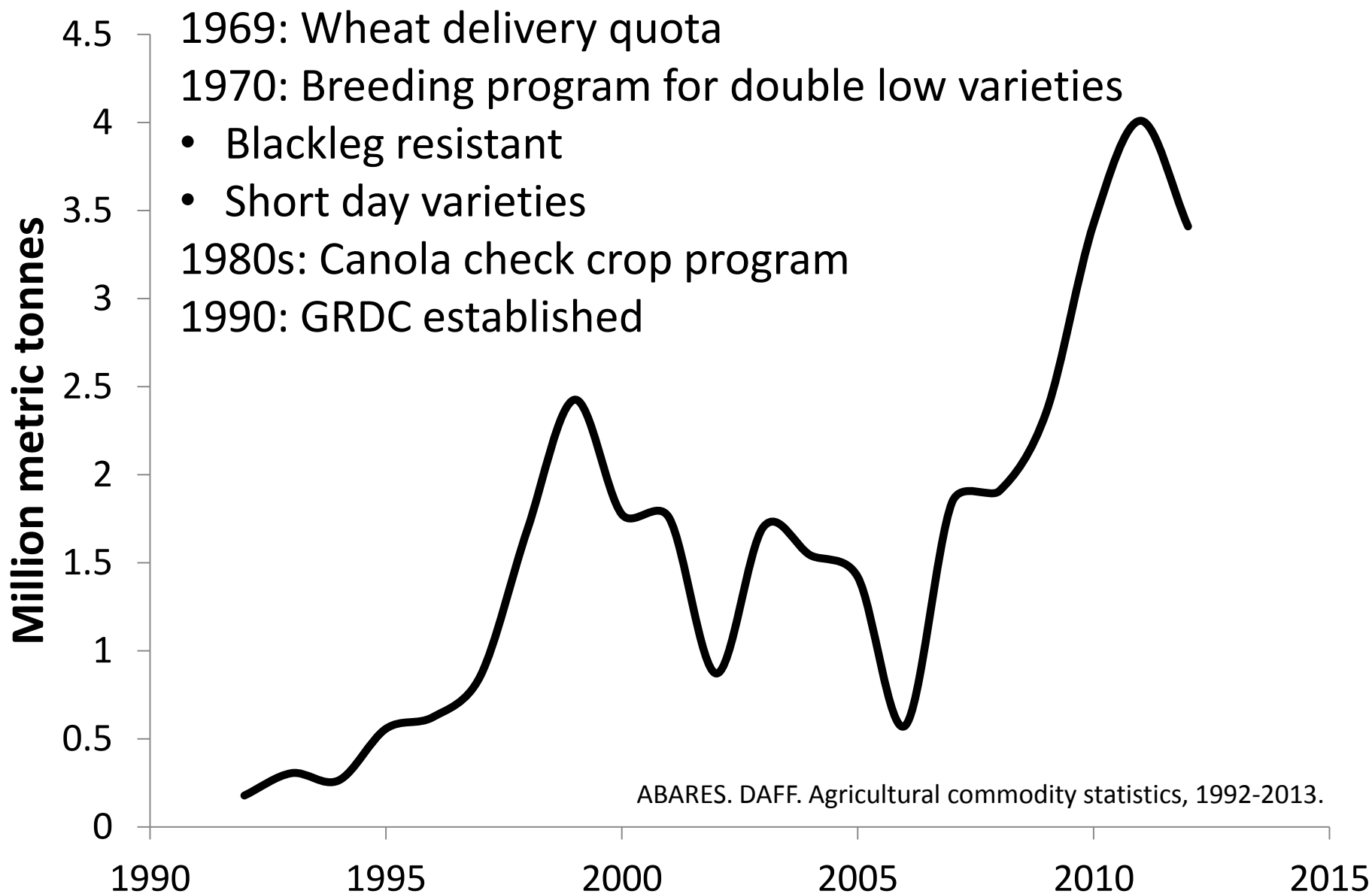
**FIG. 1.** At top, Australian oilseed-growing regions.

ABS, Land Management and Farming, Land preparation, 2011-2012.  
ABARES. DAFF. Agricultural commodity statistics, 2013.

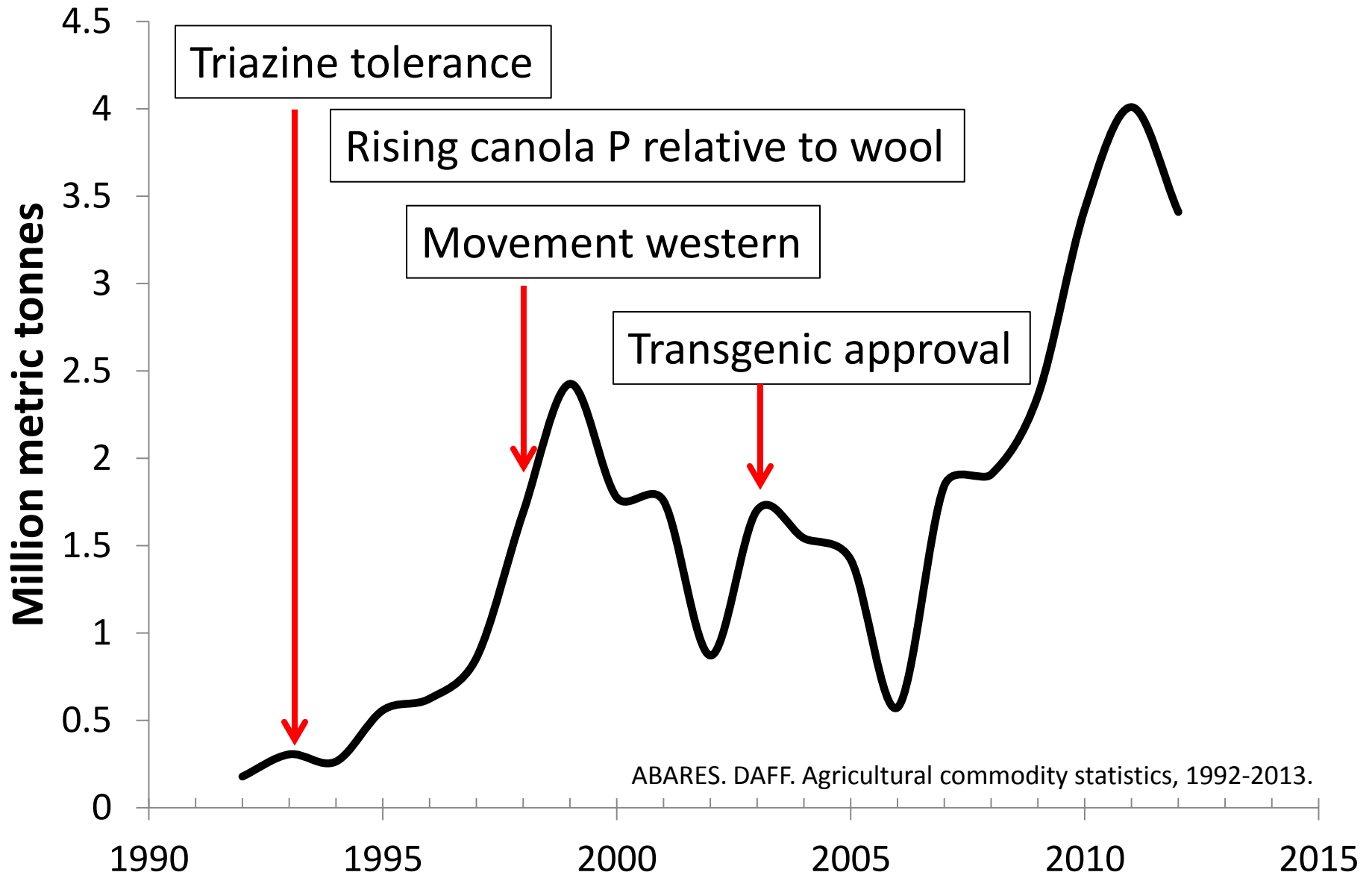
*Map from Nick Goddard, executive director of the Australian Oilseeds Federation*

# Canola in Australia: The first 30 years.

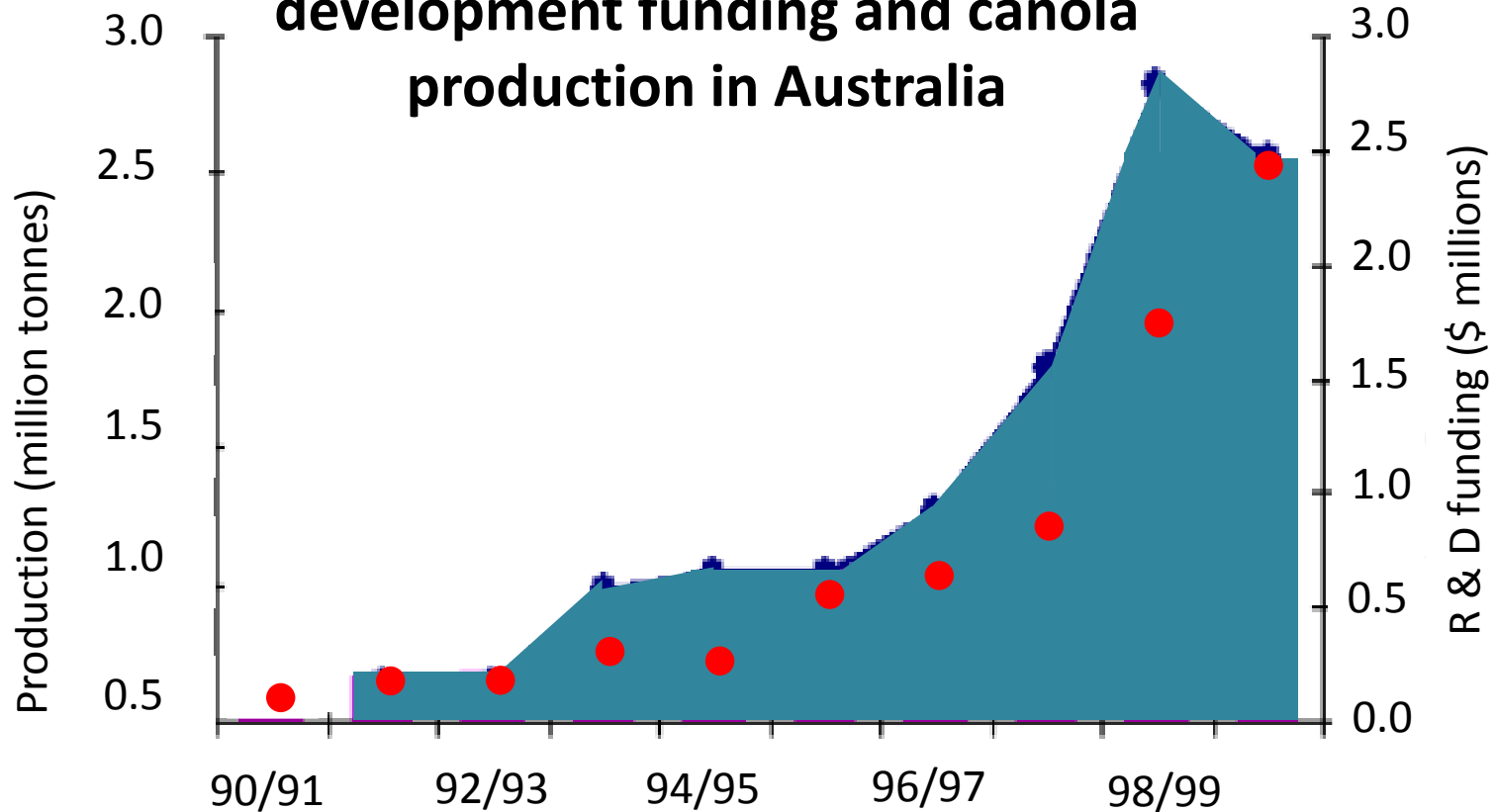
From 10<sup>th</sup> International Rapeseed Congress. 1999. Canberra, Australia.



# Canola in Australia



# Parallel growth in research and development funding and canola production in Australia



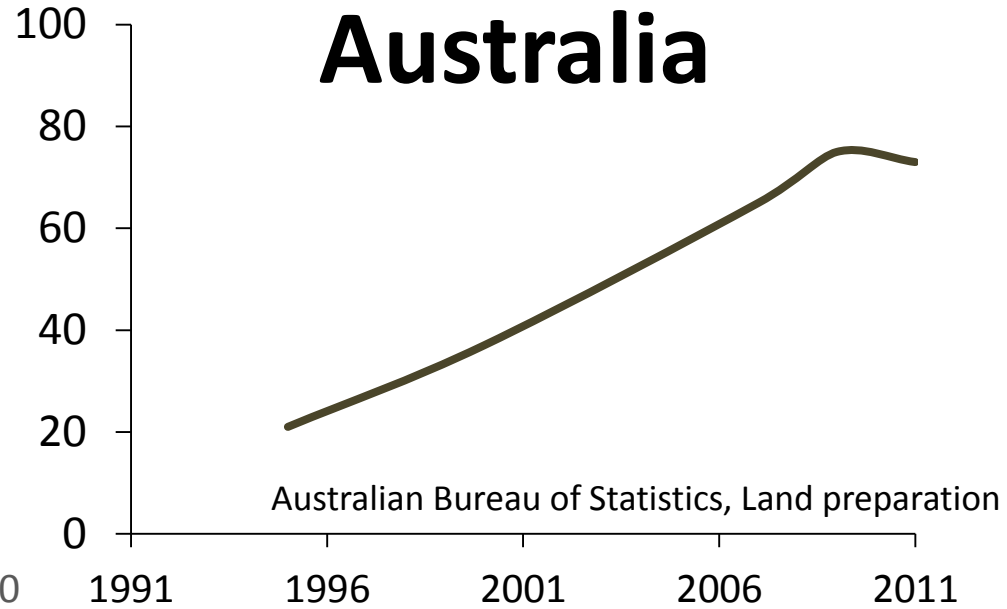
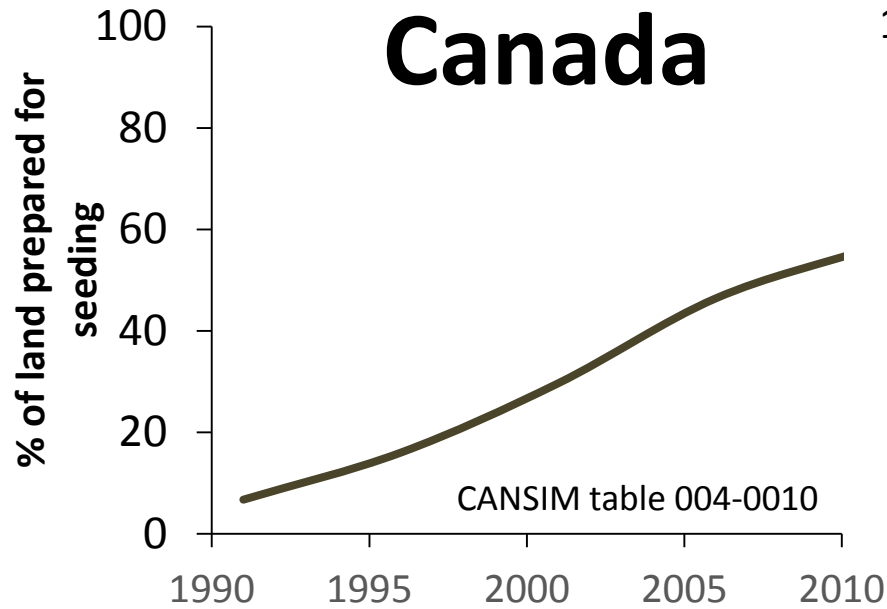
■ R & D funding by the GRDC

● Millions of tonnes canola

(Adapted from Cullen, J. 1999.)



# Soil Conservation: No-till



- Mid-1930 mandates, province/state implementation
- 1980s: Rise of community action programs and conservation councils
- 1990s-2000s: National stewardship initiatives
  - Canada: Millions \$ invested into best management practices, on farm trails, voluntary participation
  - Australia: Millions \$ invested into “Decade of Landcare” education and research; Billions \$ for Caring for our Country (6 priority areas)

# Summary

- Rise of the canola sector
  - Interdisciplinary effort (public and private)
  - Significant public-funded research, development, and education
  - Emergence of full value chain organizations (exports)
  - Levy system prioritizing research
- Adoption of soil conservation practices
  - Mostly voluntary-based
  - Public funded education and research programs



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