

# Oilseed Development Center of Excellence



## Goals

- Expand canola production and processing
- Identify improved genetics to increase efficiency in manufacturing canola-based products
- Enhance canola processing techniques for developing biodiesel and other products
- Develop strategies to improve producers,' handlers' and processors' profitability

## Accomplishments

- Developed multidisciplinary, multicollege research team to evaluate existing and new canola varieties
- Partnered with Monsanto Corp., Archer Daniels Midland Co. and Dakota Skies Biodiesel Inc.
- Leveraged \$11 million in private-sector investments from state's \$2 million in center funding
- Received several hundred canola germplasm lines from Monsanto for testing and the company's commitment to furnish additional lines
- Launched a canola breeding program at NDSU
- Planted and evaluated about 200 new canola lines in 2006
- Developed a plan to advance and release new canola lines in three to four years
- Improved NDSU Pilot Plant lab technology

## Research Results

- Identified germplasm lines to increase overall oil content by 5% to 7% and oil content per area planted by 16% to 18%
- Learned canola-based biodiesel works well in diesel-powered farm tractors
- Learned canola can be straight combined

## Impact of Increasing Canola Oil Content

Boosting the oil content of canola will result in increased canola production, income for growers and feedstocks for canola processors.

Area planted (acres)	Description	Impact to growers and industry
1 million	Current plantings	\$22 million
3 million	Likely expansion	\$66 million
5 million	Expansion to meet new demands for canola	\$110 million