

# Biodiesel Applications for the Home, Farm or Ranch

## Steps in the Biodiesel Series

Consumer Issues

Oilseed Processing

Production

**Economics** 

#### **Biodiesel production for personal use**

This series examines biodiesel from oilseed processing to conversion, from consumer issues to economics. The series is organized into the following four areas:

- Consumer issues
- Oilseed processing
- Biodiesel production
- Economics of oilseed processing and biodiesel production

#### **Consumer issues**

Biodiesel is a fuel produced by combining vegetable oil (or animal fat), alcohol and a catalyst in a process called transesterification. Biodiesel can be used in most diesel engines without any modifications.

#### **Oilseed processing**

Biodiesel is primarily created from new or recycled vegetable oil. This section explores oilseed processing technology, provides a framework for estimating the amount of feedstock needed to produce a given amount of biodiesel and discusses oilseed meal — an important byproduct of oilseed processing.

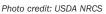
#### **Biodiesel production**

Vegetable oil produced or procured must be converted to biodiesel. This section explores key considerations for biodiesel production, required inputs (oil, alcohol and catalyst) and fuel quality issues.

### **Economics of oilseed processing and biodiesel production**

This section focuses on understanding the capital required, equipment and operating costs for a biodiesel producer to make you aware of the labor requirements, capital investment and operating costs of producing biodiesel.







Notes		

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