



Agribusiness Division

“Growing Wyoming Agriculture”



WBC Agribusiness Division

Wyoming Oilseed/Biodiesel Project
Up-Date

Donn Randall
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“Growing Wyoming Agriculture”

Food For Thought



“If You Already Do what You’ve Always Done, You will Always Get No More Than What You Already Have”

“Life Is a Get To Opportunity”



WBC Programs Growing Wyoming Agriculture

The Scrooge of Wyoming Oilseed/Biodiesel Project

Past – A Brief History

Present – Where We Are
Now

Future- Where Do We Want
to Be?





Wyoming Oilseed/Biodiesel History - Past



2006 -2008 Tom Stanley, Ross Peterson, Aaron Waller and Lindsey Taylor produced and Harvested 40 acres of Camelina in Gillette and Sheridan

2009 – Awarded a Western SARE Grant to help Wyoming Producers cost share oilseed production, conduct two oilseed/biodiesel trade missions to Northwest in 2009 and Montana in 2010

“Enhancing Rural Agricultural Family and Community Development in Wyoming Through Sustainable Biofuel Crop Production”



Wyoming Oilseed/Biodiesel Present





Wyoming Oilseed/Biodiesel Present



Wyoming Oilseed Research Grant



1. Western SARE Professional + Producer Grant
2. Cost Sharing With Wyoming Producers With Oilseed Variety Test Plots.
3. Mobile Oilseed Crushing and Biodiesel Reactor Demonstration and Oilseed Processing
4. Discovering How Companion Cropping Alfalfa And Oilseed Crops Can Enhance Diversification



Wyoming Oilseed/Biodiesel Present

Wyoming Oilseed/Biodiesel Production as of December 2010

Confection Sunflowers – 2000 acres

Oilseed Sunflowers – 200 acres

Canola – 250 acres, Camelina - 10

Safflower – 120 acres

**Sheridan Farmer's Co-op – Operating two
Kern Kraft oilseed crushers**

Wyoming Biofuel Company in Casper

**Beckton Stock Farm – Sheridan –
Constructing On-Farm oilseed crushing
and biodiesel processing**

**University of Wyoming Camelina Feed
Study**





Wyoming Oilseed/Biodiesel Future

What We Have Learned About Oilseeds/biodiesel To This Point

1. Oilseed crops can definitely be grown in Wyoming
2. Most successful oilseed/biodiesel business models observed during trade missions in Northwest and Montana are small, rural partnerships
3. Southeastern, Northeastern and Central Wyoming hold the biggest potential for oilseed production
 4. In order to help make the oilseed/biodiesel industry grow from here, producers, agribusinesses and state need to assist with potential markets





Wyoming Oilseed/Biodiesel Future

**Best Cropping System for Oilseeds:
In alfalfa rotation with RR Canola**

- 1. Average 2,500 lbs. per acre**
- 2. Canola is 40% oil by weight**
- 3. Canola meal is 32%-36% Protein**
- 4. Meal contains 8%-12% omega oils**
- 5. Current Price for canola as of 4/25/11:**

Seed - \$27.82/CWT, \$16.20/bu. up .35

Oil - \$.38/lb.

Meal - \$262/ton





Wyoming Oilseed/Biodiesel Future



What are the gross economic returns per 100 acres?

- 1. Yield = 2,500lbs./acre**
- 2. 40% oilseed crushing at 76% efficiency**
- 3. Yields 760lbs. Of oil or 105 gallons of SVO**
- 4. 1,5000 lbs. of meal for \$196.5**
- 5. Transesterification yiields 105 gallons of B100 and 28.82 gallons of KOH glycerin (which can be used as feed or fertilizer)**
- 5. Assume LSD is \$4.00/gallon**
- 6. Value of 100 acres of fuel will be \$42,000**
- 7. Value of meal will be \$19,650**

Total Return per 100 acres = \$61,650

Or

\$616.50/a



Wyoming Oilseed/Biodiesel Future



Key Factors for Future Success for Oilseed/biodiesel Production in Wyoming

1. Wyoming producers are the key players in any potential growth
2. Economics of oilseed production must be able to compete or exceed current crops
3. Based upon current canola prices and processing costs, breakeven for growing oilseeds and processing on farm is \$3.08/gallon
4. Wyoming has no economic incentives to either grow, process or use biodiesel on the farm or in any Wyoming businesses



Wyoming Oilseed/Biodiesel Future



Thank You For Your Time

Questions/Comments



Wyoming Oilseed/Biodiesel Future



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Risk Management Producer Educational Marketing Program



A Partnership Educational Program
With Linda Cruikshank, E Hedger LLC,
And WBC to Offer Wyoming Producers
An Opportunity to Develop Alternative
Marketing Strategies for their operation.

