

greatplains *Powering the new agricultural economy*

Developing Camelina Production

Why Camelina?

More features:


- "organic option"
- spread the work load away from spring & fall
- no bugs
- no disease, no summer monitoring
- no special equipment
- no swathing

= less worries

"No crop you're going to grow that you'll put less into... it will work well in my winter wheat rotation" -Kent Meers, Acadia Valley, AB.

Outline

- Why Camelina?
- Land Selection/Preparation
- Seeding
- Fert. & Herbicides
- Harvest
- Marketing



Land selection/preparation

- Avoid fields treated with residual herbicides such as Everest, Assert, Ally, Odyssey, etc. until after manufacturer suggested recropping restriction period.
- Also concern with Rustler, 2,4-D, Express, etc. in a late summer or fall application.
- Treatment: Fall burn-off with Roundup*
- Ensure firm seed bed and good packing.

Why Camelina?

Its an oilseed option better suited for dryland vs. canola in the Palliser Triangle of Western Canada.

Features:

- no frost concerns
- drought tolerant
- lower fert. costs
- low herbicide requirement (fall burn only)
- low seed costs

= less risk

Seeding

- Seeding rate
 - 5.0 lbs/acre (added weed competition)
- Early seeding
 - Broadcast, low residue (Mid October to Feb 28)
 - Broadcast and harrowpack, high residue (Mid October to March 20)
 - Drill (Mid October - March 31)

Fertilizer & Herbicides

- Fertility (available nutrients)
 - Nitrogen: Response up to 45 lbs/acre available
 - Phosphorus: Response to 30 lbs/acre available
 - Potassium: no response
 - Sulfur: oil response- 1%/10 lbs available
- Weed control (Registrations in progress)
 - Post emergent grass herbicide
 - Preplant broadleaf control

the future of sustainable fuel

Great Plains Oil & Exploration- An Introduction

Great Plains Oil and Exploration (Great Plains) IS the CAMELINA COMPANY- A renewable energy company founded with the purpose of manufacturing and marketing biodiesel produced from *Camelina sativa* (*Camelina*). The Company has formed a strategic biofuels partnership with INEOS- the 3rd largest private chemical company in the world and one of the largest biofuels producers in the world to produce and supply renewable fuel from *Camelina* oil to downstream partners like Peter Cremer

greatplains | the camelina company

INEOS Enterprises

PETER CREMER

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Effects of Seeding Date, Fertility, and Variety: Oregon State University

| Variety Trial Yields | | | Seeding Rate Trials Yields | | | | Nitrogen Fertility Trials Yields | | |
|----------------------|----------|------|----------------------------|------|----------|------|-----------------------------------|------|----------|
| Variety | Location | | seeding rate (lb/acr #) | | Location | | N rate above the field (lb/acr #) | | Location |
| | pd1 | more | pd1 | more | pd1 | more | pd1 | more | |
| 1 | 1169 | 1768 | 1.8 | 1183 | 2007 | 0 | 1465 | 2352 | |
| 2 | 1123 | 1637 | 3.0 | 1187 | 2130 | 20 | 1280 | 2411 | |
| 3 | 1008 | 2079 | 4.5 | 1293 | 2287 | 40 | 1549 | 2292 | |
| 4 | 1002 | 2204 | 6.0 | 1200 | 2321 | 60 | 1472 | 2433 | |
| 5 | 1068 | 2128 | LSQ | NS | NS | NS | NS | NS | |

Pendleton field = 60 lb N/acre
More field = 60 lb N/acre

All yield in lb/acre

Calina was the variety in these trials

Harvest

- Straight-cut preferred
- Ground speed:
 - as per individual grower/combine/crop
- Rotor/Cylinder speed:
 - 800 - 1000 rpm
- Concaves: 1/4 open
- Air: med-high (top sieve is closed)
 - 800 - 1000 rpm
- Sieves:
 - top: closed
 - Bottom: open

