Emerging Technologies

Still trying to master old technologies....

- Agronomics
- Forage Potential
- Non-GMO varieties

- Genomics and Adaption
  - Bio-Jet Fuel project with USDA researchers
Agronomics

**Spring canola**
- Seeding rates
- Fertility
- Weed Control

**Winter canola**
- Seeding date
- Row spacing
- Seeding rates
- Fertility
# Planting Date Effect

<table>
<thead>
<tr>
<th>Cultivar</th>
<th>June</th>
<th>July</th>
<th>August</th>
<th>Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amanda</td>
<td>3,009</td>
<td>2,720</td>
<td>1,969</td>
<td>2,574 a</td>
</tr>
<tr>
<td>Athena</td>
<td>2,786</td>
<td>2,847</td>
<td>2,521</td>
<td>2,719 a</td>
</tr>
<tr>
<td>Baldur</td>
<td>2,819</td>
<td>2,734</td>
<td>2,102</td>
<td>2,552 a</td>
</tr>
<tr>
<td>Salut</td>
<td>1,585</td>
<td>1,432</td>
<td>1,341</td>
<td>1,453 b</td>
</tr>
<tr>
<td><strong>Mean</strong></td>
<td><strong>2,550 a</strong></td>
<td><strong>2,433 a</strong></td>
<td><strong>1,983 b</strong></td>
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</tbody>
</table>
Forage Utilization

Optimizing forage yields
- examine mixtures with cereal forage
- seeding rates

Minimizing impact on seed yield
Winter canola and rapeseed
Spring canola and rapeseed
Condiment/Yellow mustard
Oriental and Brown mustard
Current Varieties

Amanda Winter Canola
Athena Winter Canola
Clearwater Spring Canola
Gem Spring Industrial Rapeseed
IdaGold Condiment Mustard
Pacific Gold Oriental Mustard
Kodiak Brown Mustard
New Non-GMO Varieties

Durola Winter Industrial Rapeseed
- High erucic acid oil
- Low glucosinolate meal

WC.1 Winter Canola
- High yields
- Earlier flowering/maturity

UI.05.6.33 Winter Canola
- High yields
- Increased winter survival
New Non-GMO Varieties

Cara Spring Canola (IMI-resistant)
SC.28... Spring Canola  Zephyr ?
Arriba Spring Canola
White Gold Condiment Mustard
CY.50.1 Condiment Mustard
IMI-Resistant Oriental Mustard
03.BJIMI.15.2 - Jimi ?
White Gold Yellow Mustard
In the Pipeline

Mid-Generation Testing
IMI-resistant winter canola
IMI-resistant winter rapeseed

Early Generation Testing
Roundup Ready winter canola
Roundup Ready spring canola
New Personnel

Megan Wingerson
Oilseed Chemistry, Greenhouse Mgmt

Brad Huffman
Field Plots, Genetics

Katie Reed
Grad Student, Canola Agronomics

Pedee Ewing
Grad Student, Oilseed Adaption
Variety Performance Update

Data is available from over 10 years of trials conducted by University of Idaho personnel.

http://www.cals.uidaho.edu/brassica/
http://www.ag.uidaho.edu/brassica/
http://webpages.uidaho.edu/jbrown/brassica/
## Winter Canola Cultivars

(lbs. / acre)

<table>
<thead>
<tr>
<th>Cultivar</th>
<th>2012</th>
<th>2011</th>
<th>2010</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athena</td>
<td>3512</td>
<td>4367</td>
<td>2893</td>
<td>3892</td>
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<tr>
<td>Amanda</td>
<td>3542</td>
<td>4215</td>
<td>3584</td>
<td>3897</td>
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<tr>
<td>UI.WC.1</td>
<td>3767</td>
<td>4203</td>
<td>3074</td>
<td>4203</td>
</tr>
<tr>
<td>UI.05.6.33</td>
<td>3697</td>
<td>4099</td>
<td>3533</td>
<td>-</td>
</tr>
<tr>
<td>HyCLASS 154W RR</td>
<td>-</td>
<td>-</td>
<td>3090</td>
<td>3896</td>
</tr>
<tr>
<td>HyCLASS 125W RR</td>
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<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Baldur</td>
<td>4070</td>
<td>3936</td>
<td>3230</td>
<td>4166</td>
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## Winter Rapeseed Cultivars

(lbs. / acre)

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<th>Cultivar</th>
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<th>2010</th>
<th>2009</th>
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</thead>
<tbody>
<tr>
<td>Dwarf Essex</td>
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<td>3917</td>
<td>3126</td>
<td>3449</td>
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<tr>
<td>Bridger</td>
<td>3071</td>
<td>2968</td>
<td>2743</td>
<td>2996</td>
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<td>Durola</td>
<td>3336</td>
<td>4267</td>
<td>3108</td>
<td>3953</td>
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## Spring Canola Cultivars

<table>
<thead>
<tr>
<th>Cultivar</th>
<th>2012</th>
<th>2011</th>
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</thead>
<tbody>
<tr>
<td>InVigor L130 LL</td>
<td>2214</td>
<td>2226</td>
</tr>
<tr>
<td>InVigor L150 LL</td>
<td>2220</td>
<td>2040</td>
</tr>
<tr>
<td>DKL 30-42 RR</td>
<td>2172</td>
<td>2033</td>
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<tr>
<td>v2035 RR</td>
<td>2045</td>
<td>1917</td>
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<tr>
<td>HyCLASS 955 RR</td>
<td>2273</td>
<td>2005</td>
</tr>
<tr>
<td>Nexera 2012 CL</td>
<td>1944</td>
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<tr>
<td>Cara¹</td>
<td>1800</td>
<td>1986</td>
</tr>
<tr>
<td>SC.28...</td>
<td>1841</td>
<td>2048</td>
</tr>
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</table>

¹ Beyond/Pursuit Resistant
## Yellow Mustard Cultivars

<table>
<thead>
<tr>
<th>Cultivar</th>
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<th>2009</th>
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</thead>
<tbody>
<tr>
<td>IdaGold</td>
<td>1680</td>
<td>1388</td>
<td>1512</td>
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<tr>
<td>98.CY.50.1</td>
<td>1950</td>
<td>1506</td>
<td>1611</td>
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## Oriental Mustard Cultivars

<table>
<thead>
<tr>
<th>Cultivar</th>
<th>2011</th>
<th>2010</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pacific Gold</td>
<td>2373</td>
<td>1843</td>
<td>1804</td>
</tr>
<tr>
<td>03.BJIMI.15.2</td>
<td>2288</td>
<td>1969</td>
<td>-</td>
</tr>
</tbody>
</table>
Before You Grow…
Know Your Field History!!!

Many common herbicides have plant-back restrictions, including:

Ally, Amber, Assert, Beyond, Diuron Everest, Finesse, Huskie, Maverick, Olympus, Peak, PowerFlex, Pursuit…
Plantback restrictions for herbicides used in the dryland wheat production areas of the Pacific Northwest

By Bradley D. Hanson, Todd A. Rauch, and Donald C. Thill

Selective soil persistence characteristics of herbicides when planning crop rotations to maximize economic yield and minimize herbicide injury.

Herbicide classification: Site of action

Herbicidal dissipation and half-life

This publication contains the Plantback Restrictions reference table.
Questions?

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208-885-4550