Canaryseed Yield Response to Nitrogen Rate

Nitrogen (lbs/acre)

Yield (lbs/acre)
Seeding Rates

- **Group I**: High mean, low variability (optimal)
- **Group II**: High mean, high variability
- **Group III**: Low mean, high variability (poor)
- **Group IV**: Low mean, low variability

Grain Yield (kg/ha) vs. CV (%)
Canaryseed Yield Response to Seeding Date
Septoria Leaf Mottle
To spray or not to spray that is the question
Septoria Leaf Mottle and Yield

Yield (lbs/acre)

- IH 98
- IH 99
- Melfort 99
- Melfort 00
- Steward V. 99
- Steward V. 00

Tilt and Check
Septoria Leaf Mottle and Yield

Yield (lbs/acre)

- Check
- Tilt
- Stratego
- Headline

Year:
- 2004
- 2005
- 2006
- 2007
- 2008
- 2009
- 2010
- 2011
Septoria Leaf Mottle and Yield

[Bar chart showing yield comparison for different treatments across various years, labeled as IH and FS. Treatments include Check, Tilt, Stratego, and Headline. Significant differences indicated by letters a and b.]
Septoria Leaf Mottle

- New project to determine plot size needed to capture the effect of Septoria Leaf Mottle on Canaryseed
Chloride in Canaryseed

- Response to Chloride not Potassium
- Use potash to provide chloride
Chloride and Grain yield Yield

<table>
<thead>
<tr>
<th>Chloride</th>
<th>Grain Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>0K-0Cl</td>
<td>a</td>
</tr>
<tr>
<td>10K-9.1Cl</td>
<td>b</td>
</tr>
<tr>
<td>20K-18.2Cl</td>
<td>a</td>
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<tr>
<td>30K-27.3Cl</td>
<td>a</td>
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</table>
Residual levels of Chloride in soil and Grain yield Yield

![Graph showing the relationship between Chloride levels (Cl 0-6) and yield effect (Yield effect in kg ha\(^{-1}\)). The graph indicates a decrease in yield effect as the Chloride levels increase.](image)
Any yield increase above 113 kg ha\(^{-1}\) was significant.
Chloride in Canaryseed

• Apply 18 lb/acre of potash
• Soil test – best estimate
  – May not need Cl when you have at least 75 to 80 lb/acre in top 6 inches