

Flax/Linola Fan Speed & Seed Treatment Issues

Brent Flaten, ACE Specialist

Bryan Cresswell, Bourgault Industries



BOURGAULT *Pursuing
Perfection*



Flax/Linola Establishment

- Watch fan speed on airseeders
 - Damaged seed can result in:
 - dead seed, or
 - cracked seed that is more susceptible to seedling diseases
 - Refer to manufacturer's specifications

BOURGAILT

AU/Bourgault Air-seeder Trial



BOURGault

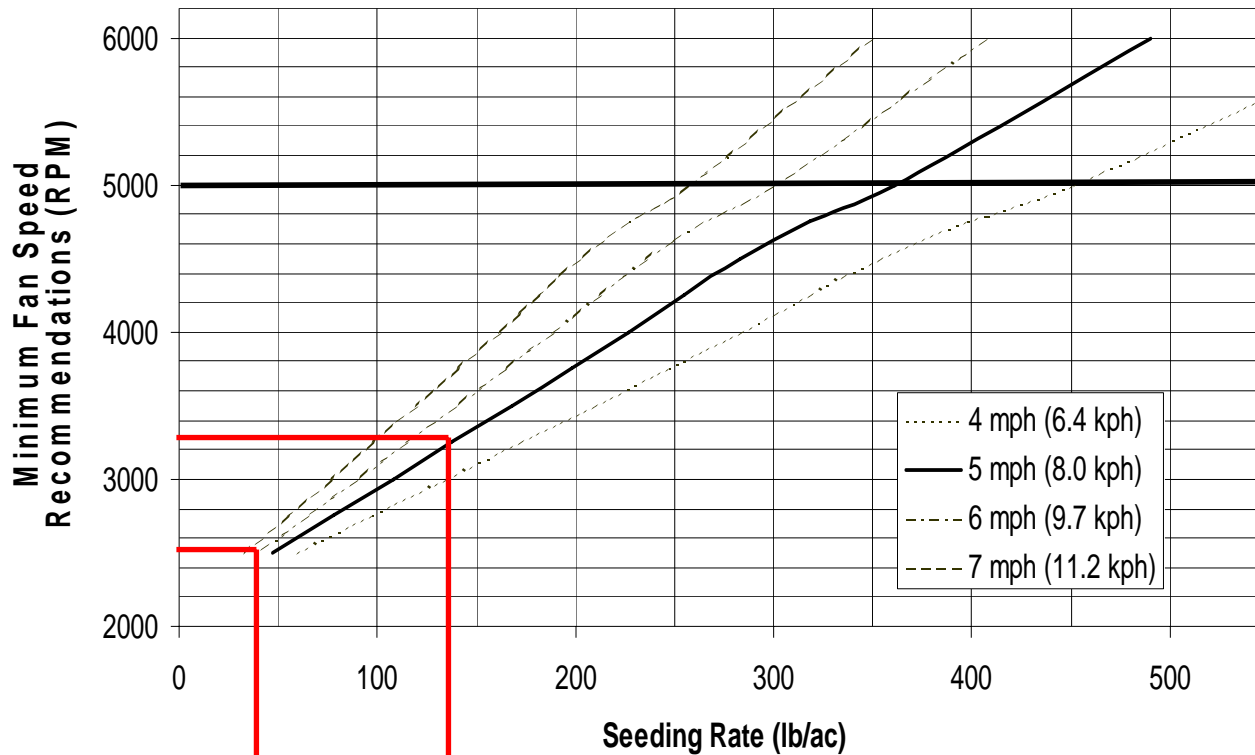
AU/Bourgault Air-seeder Trial

AgriCore
United



2005 Air Seeder Trial: AU and Bourgault

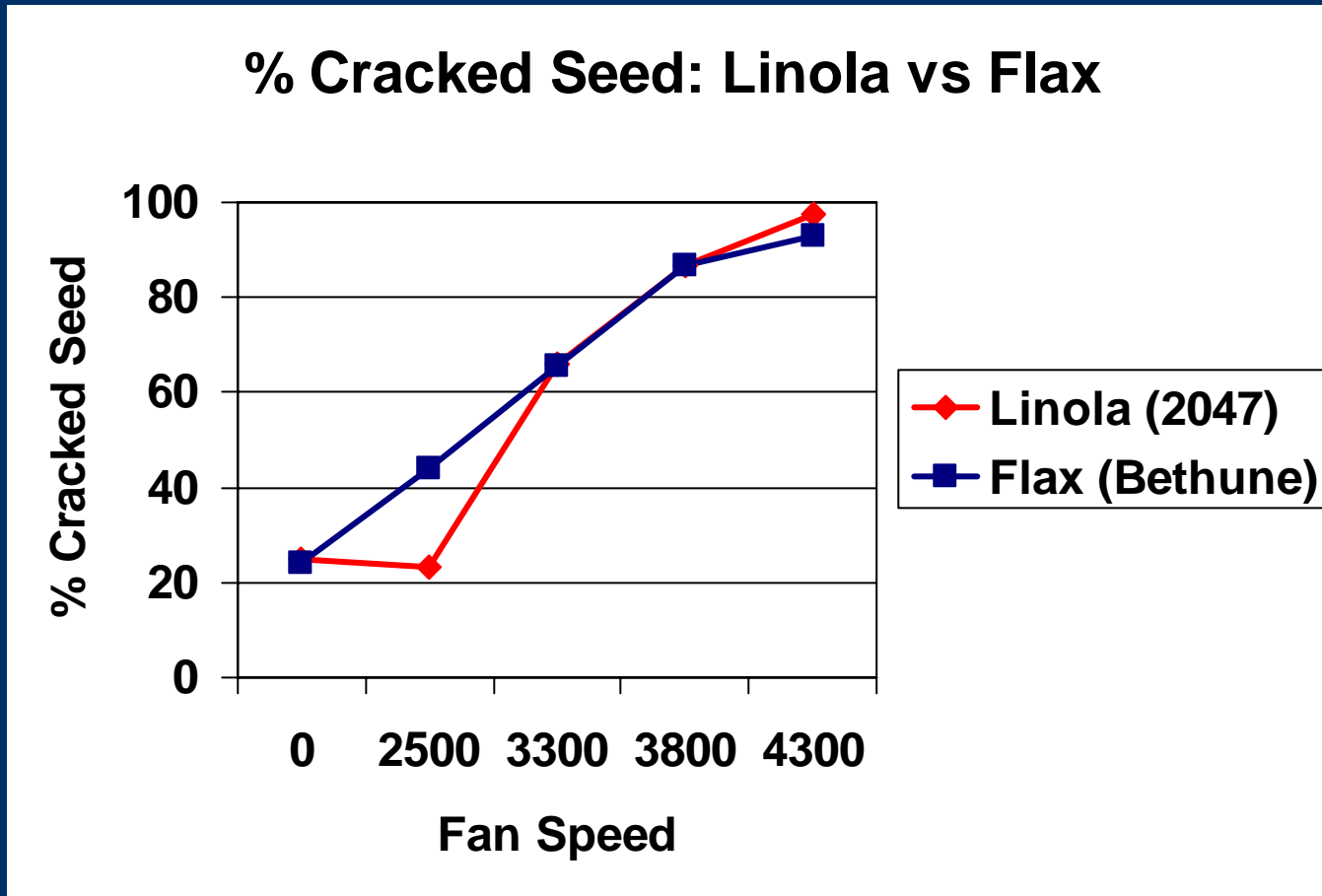
5710 47' @9.8" Minimum Fan speed
1" (25 mm) Tertiary Hose With Dimpled Components



**Flax/Linola
Alone**

**Flax/Linola +
Fertilizer**

Air Seeder Fan Speed Effect 2005 Data (AU & Bourgault)

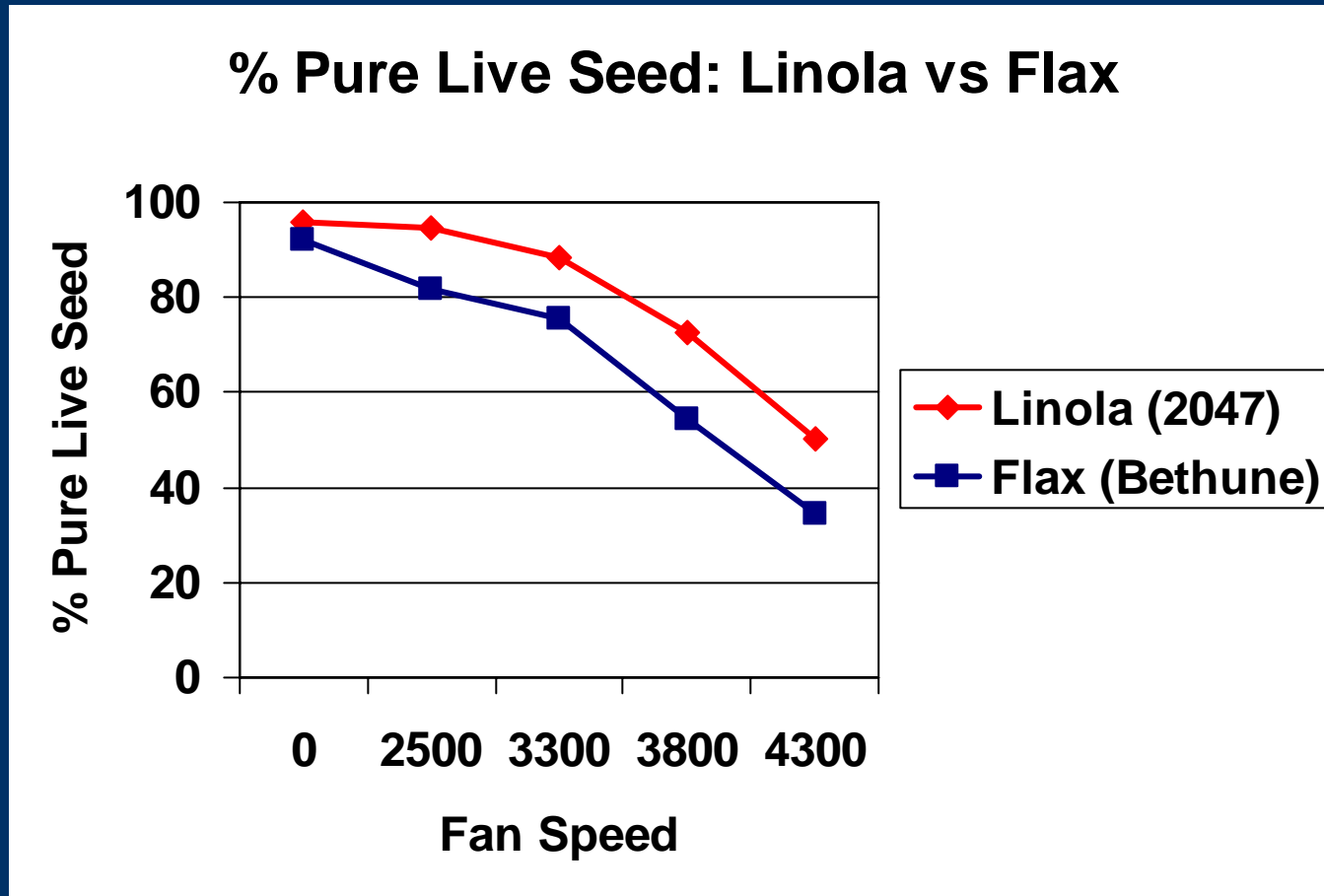


Seed moisture: Linola < 6.6% ; Flax 6.8%

LSD 9.9

Air Seeder Fan Speed Effect

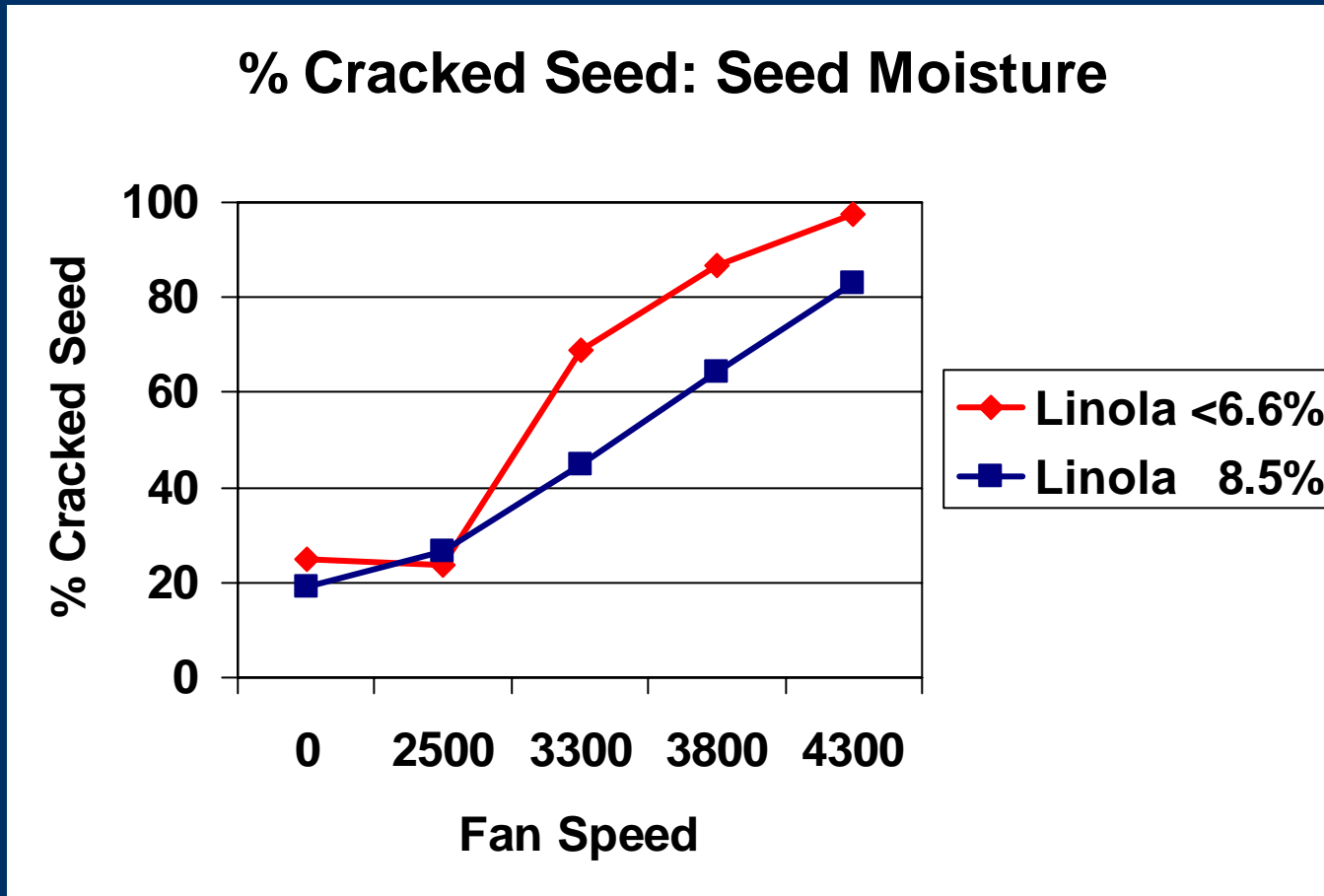
2005 Data (AU & Bourgault)



Seed moisture: Linola < 6.6% ; Flax 6.8%

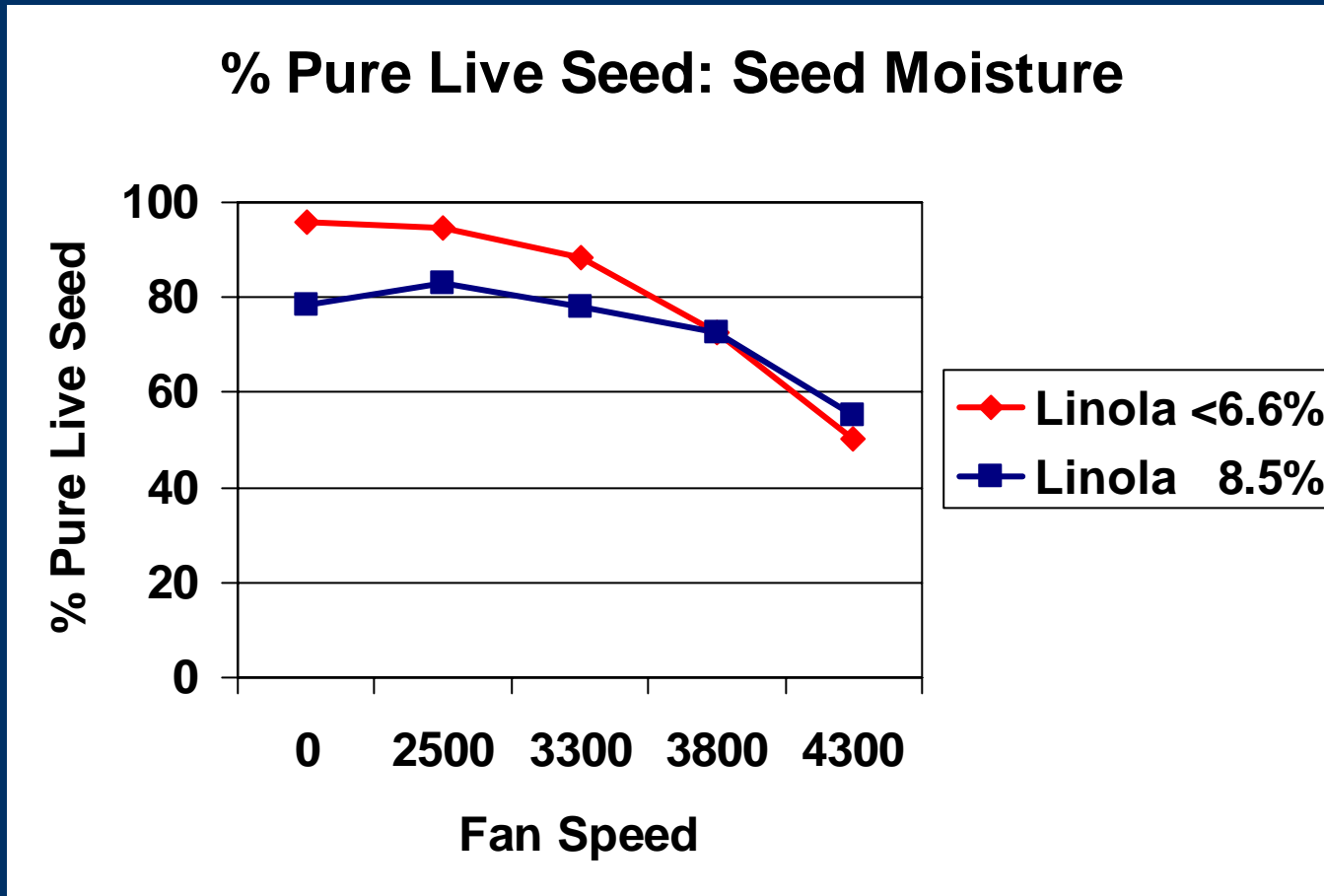
LSD 6.5

Air Seeder Fan Speed Effect 2005 Data (AU & Bourgault)



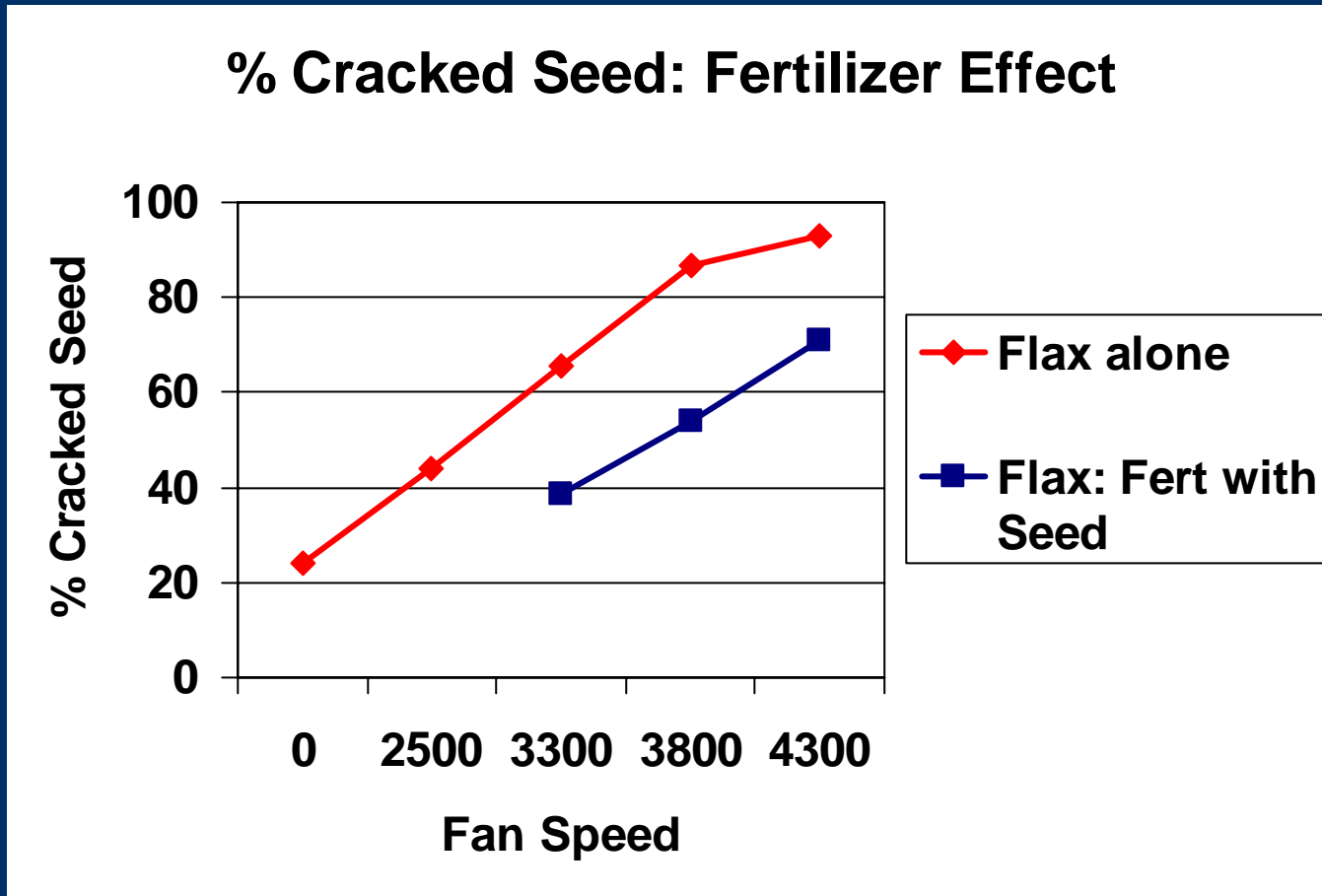
LSD 9.9

Air Seeder Fan Speed Effect 2005 Data (AU and Bourgault)



LSD 6.5

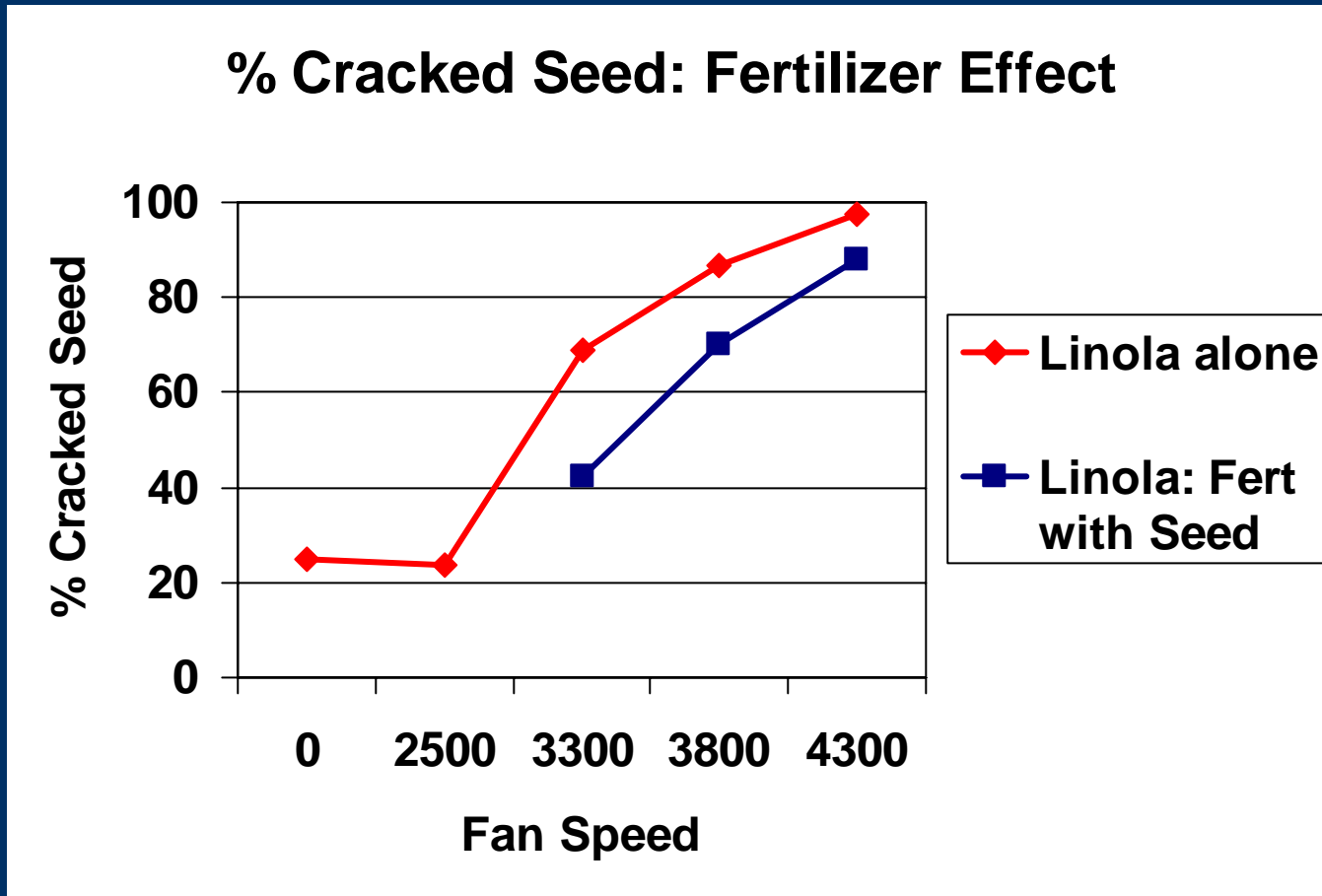
Air Seeder Fan Speed Effect 2005 Data (AU and Bourgault)



Fertilizer: 89 lb/acre of product in with seed

No increase in inert matter over control

Air Seeder Fan Speed Effect 2005 Data (AU and Bourgault)



Fertilizer: 89 lb/acre of product in with seed

No increase in inert matter over control

AU Proven Seed Trials, 2005

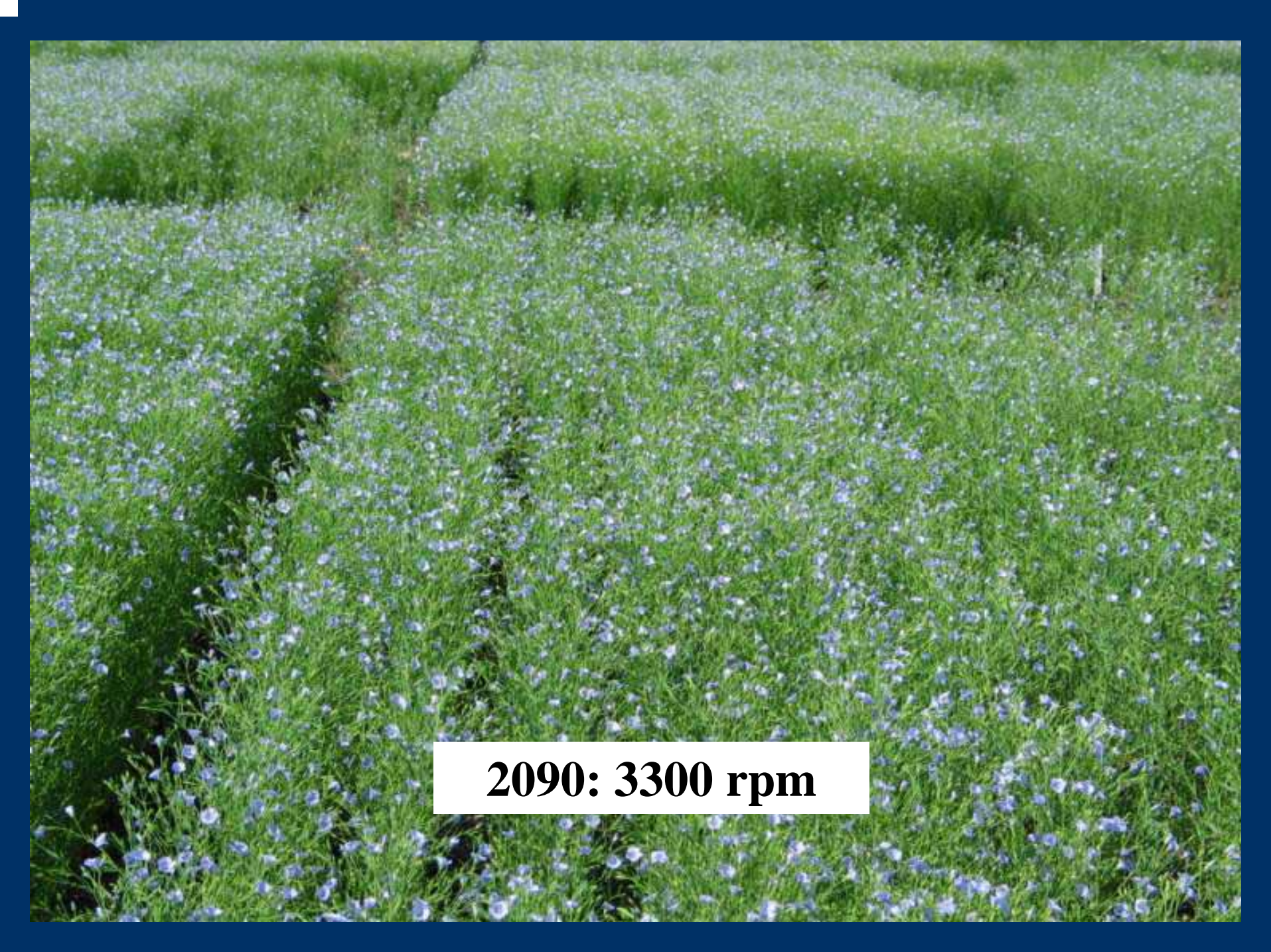
- Seeded out non fertilizer treatments:
 - Low seed moisture Linola 2047
 - High seed moisture Linola 2047
 - Low seed moisture Linola 2090
 - Low seed moisture Bethune flax
- Six sites (4 survived):
 - Neapolis, Saskatoon, Dixon and Rosebank



2090 control

A photograph of a lush green field densely populated with small, light blue flowers. The flowers are scattered across the entire field, creating a speckled appearance against the green grass. The lighting is bright, suggesting a sunny day. In the bottom center, there is a white rectangular box containing black text.

2090: 2500 rpm

A photograph of a lush green field densely populated with small, light blue flowers. The flowers are scattered across the entire field, creating a speckled appearance against the green grass. The field is viewed from a slightly elevated angle, showing the texture of the vegetation. A white rectangular box with black text is overlaid at the bottom center of the image.

2090: 3300 rpm



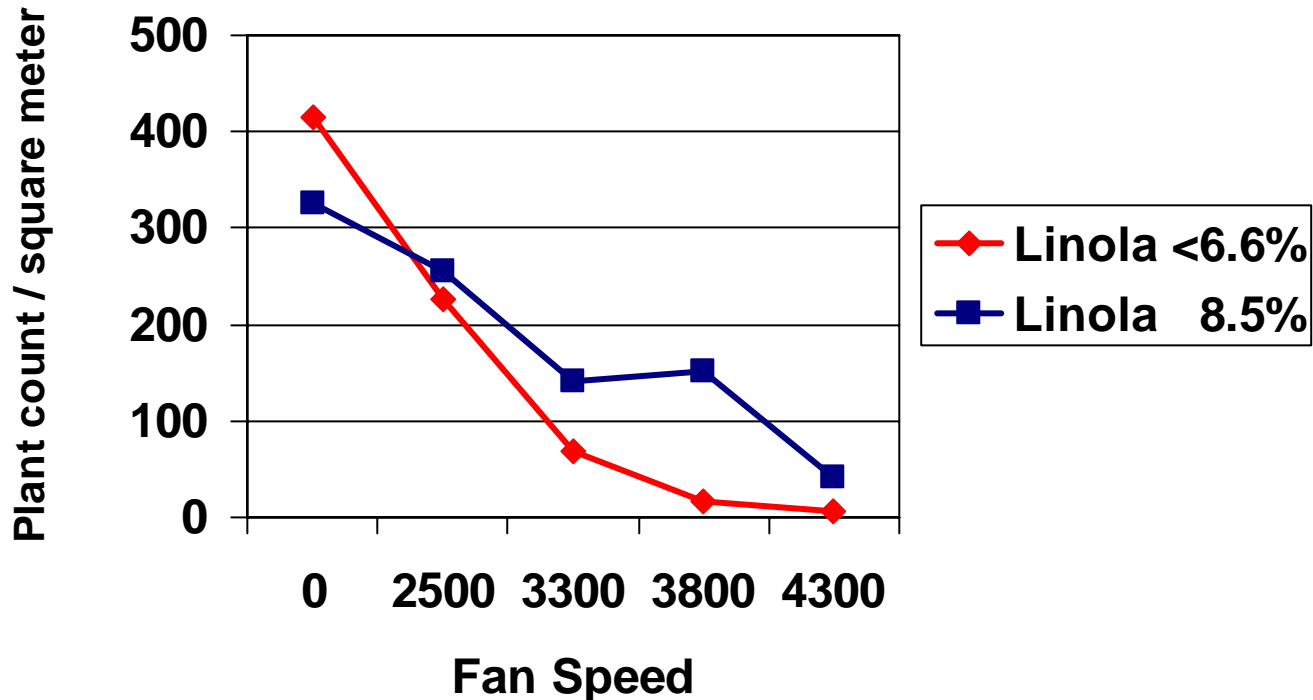
2090: 3800 rpm



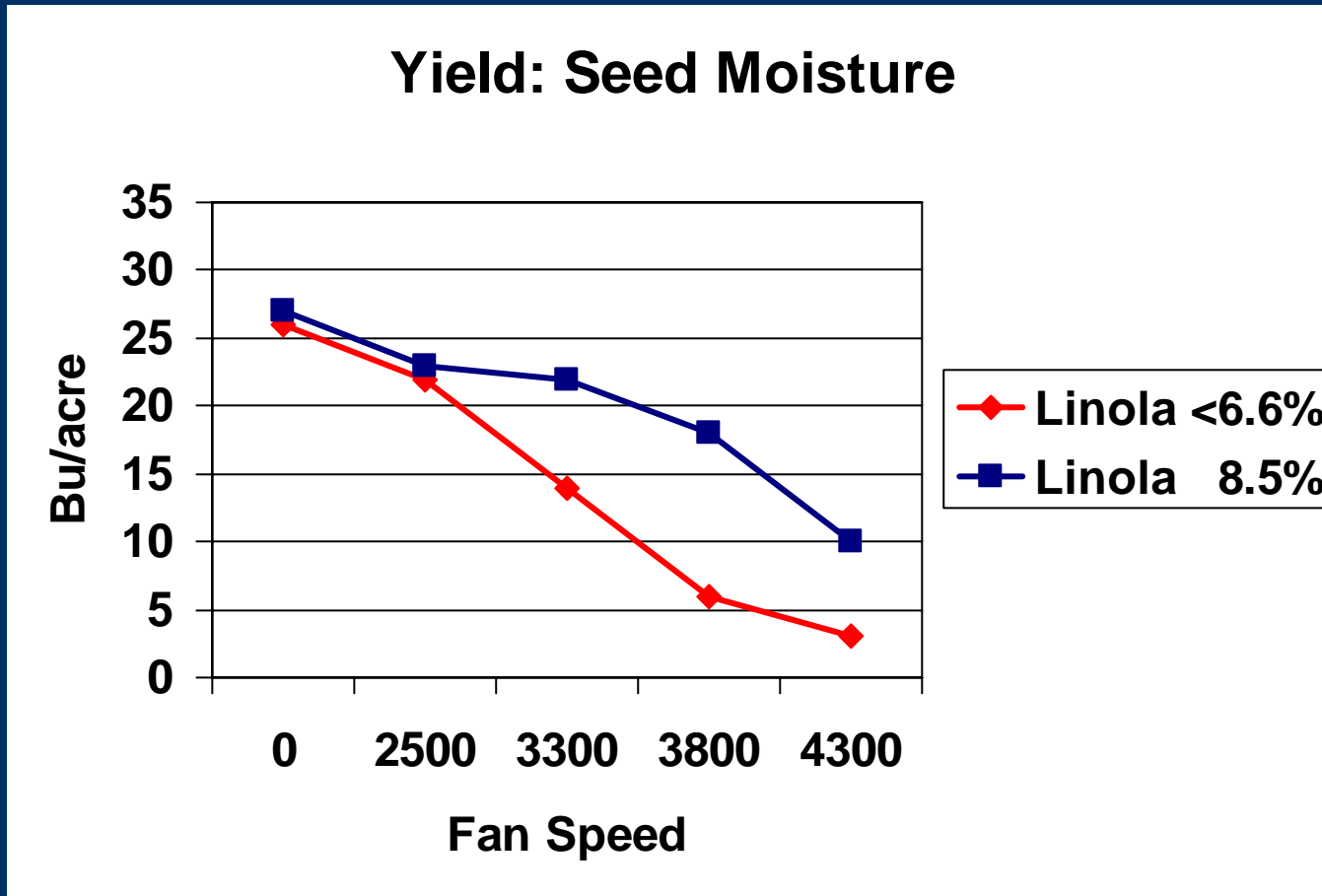
2090: 4300 rpm

Air Seeder Fan Speed Effect 2005 Data (AU and Bourgault)

Plant Count: Seed Moisture



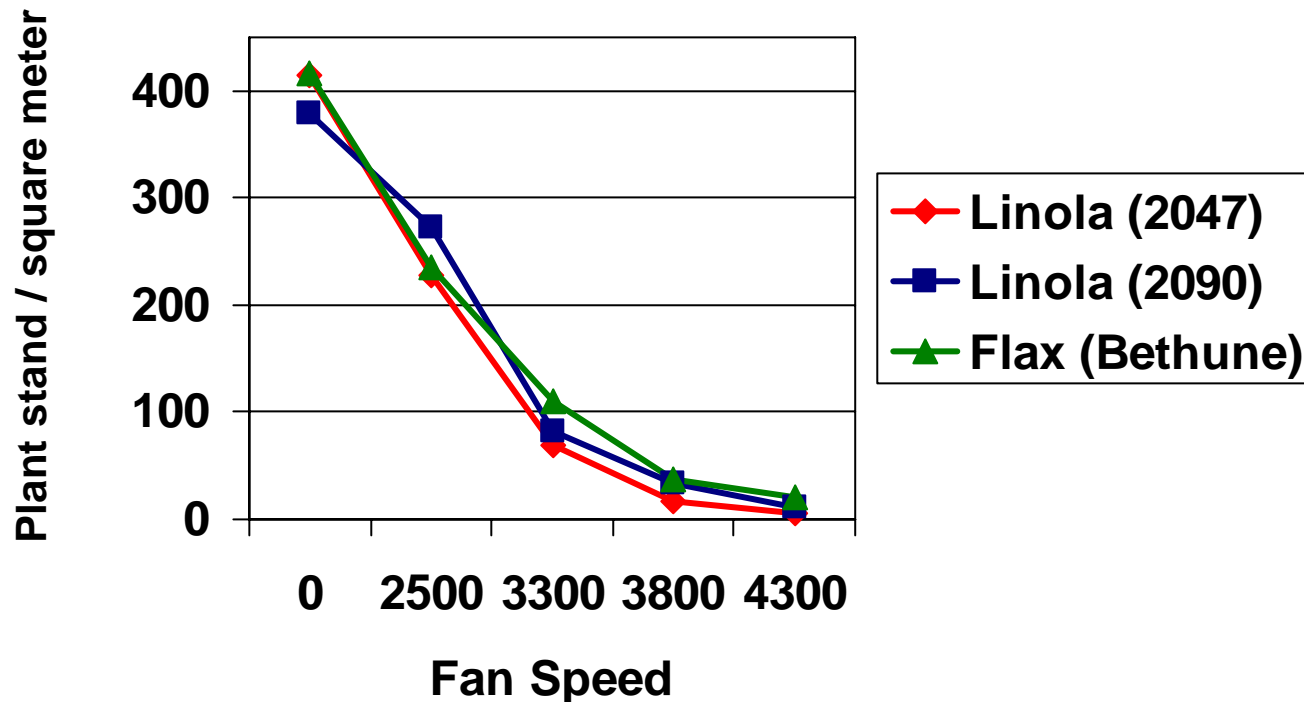
Air Seeder Fan Speed Effect 2005 Data (AU and Bourgault)



Linola 2047 LSD 2.3 bu/ac

Air Seeder Fan Speed Effect 2005 Data (AU & Bourgault)

Plant Stand: Linola vs Flax

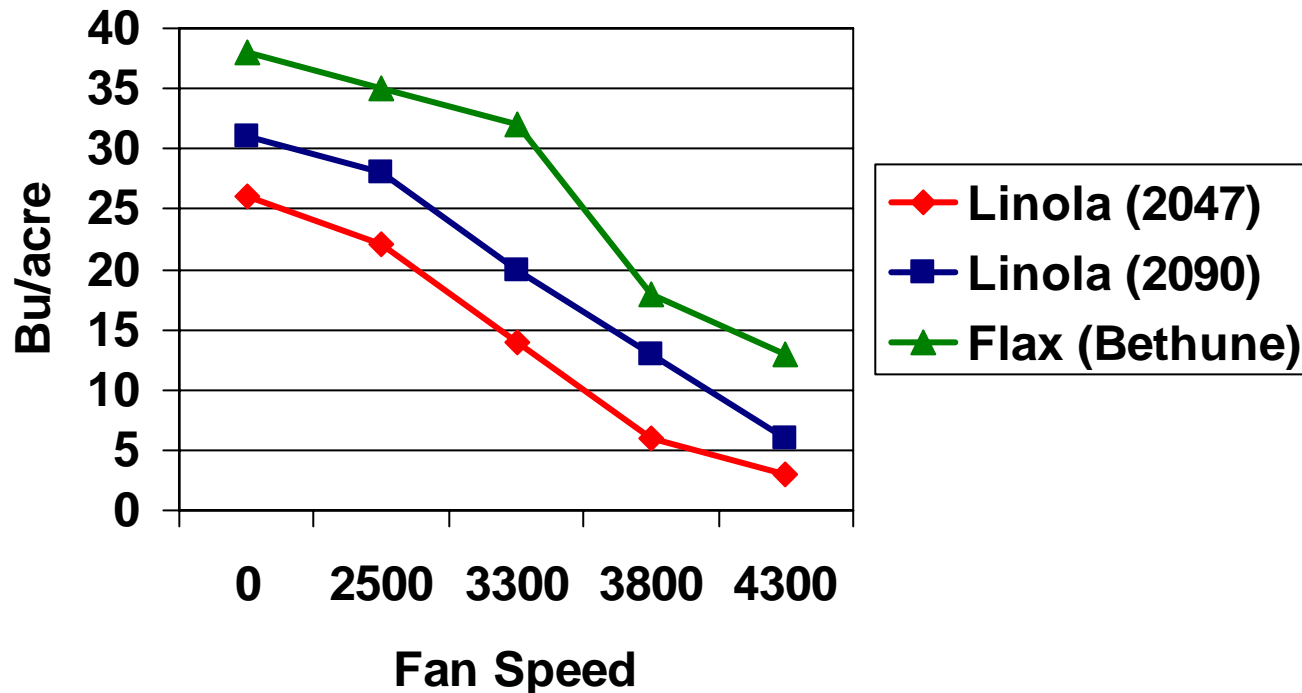


Seed moisture: Linola 2090 6.7% ; Linola 2047 <6.6 %
Flax 6.8%

Air Seeder Fan Speed Effect

2005 Data (AU & Bourgault)

Yield: Linola vs Flax



Seed moisture: Linola 2090 6.7% ; Linola 2047 <6.6 %
Flax 6.8%

Take Home Messages:

- Refer to manufacturer air fan speed charts: Use the lowest possible fan speed on the air-seeder for carrying seed.
- Adjust fan speed when changing between seed and fertilizer rates.
- No significant differences between Bethune flax versus Linola varieties in final plant stand or yield effects due to fan speed.

Seed Treatment Issues:

- Very Difficult to seed treat flax or Linola:
 - Movement of seed treatment to water based products
- Vitavax Single works the best
 - Inventory only
- Research??

Thank you
Any Questions?

