EXPERIENCES FROM TABER, ALBERTA, CANADA

FORUM – REDUCED/STRIP TILLAGE

Bryan Avison
Lantic Inc.
Taber, Alberta, Canada

Moderator: Clark Millard
ASSBT Reduced/Strip Tillage Forum

Experiences from Alberta, Canada

Bryan Avison
Soil Erosion Event in Southern Alberta
Great Depression or 21st Century?
Southern Alberta Traditional Seedbed Preparation and Planting
Sugar Beet Field After Severe Erosion Event
1996 - Southern Alberta No-Till Sugar Beet Experiment
Reduced Tillage Systems made the Mold Board Plow Obsolete
2002 - Reduced Tillage
Seedbed in Southern Alberta
2004
24 Row Grower Manufactured
Strip Tillage Implement
2004 - In Row Speed of Emergence and Soil Temperature Comparison

Strip Tillage System

Conventional Tillage
In Row Straw Accumulation
1\textsuperscript{st} Generation 6 Row Research Strip Tillage Implement
Comparable Stand Establishment
Differences in Early Season Canopy Vigor Between Strip and Conventional Tillage

Large Scale Strip Trial (CACDI site – Lethbridge)
Evaluation of N Rates and Forms

Cone Seeder Attachment

ESN vs. 46-0-0
SOMETIMES I FEEL THAT I HAVE THE WORST JOB IN THE WORLD!

YA...RIGHT!
Evaluation of P Rate and Placement

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# Strip Tillage in Alberta

## Advantages

### Economic Benefits
- Reduce fuel and labor costs
- Reduce capital costs
- Maintain current farm income

### Environmental Benefits
- Eliminate Soil Erosion
- Soil Health
- Carbon Sequestration

### Agronomic Benefits
- Complements RR production system
- High PUE of nutrients

## Disadvantages

### Initial Investment
- Sub-inch RTK Guidance System
- Strip Tillage Implement
- Planter Row Cleaners

### Crop Residue Management
- Ability to handle large volumes
- Uneven distribution creates many problems

### No Large Scale Commercial Production
- Only 1 grower in Alberta
Thanks for your attention!!