

2007

Solution Days

"Back to the Future?" Management Considerations for Continuous Corn

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“Back to the Future?” Management Considerations For Continuous Corn

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2007soldays-cornoncorn001

Management Considerations for Continuous Corn

Pros

Ethanol
Simple
Carbon/OM
Soybean Rust
Soybean Aphids
pH / Inoculants
Less Erosion

Cons

Rotation
Workload
Residue
Corn Diseases
Rootworms
Legume N
Input Costs

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2007soldays-cornoncorn002

Tillage Systems

No-till (Soil & Water)
Ridge-plant (furrow)
Strip-till (flat land)
Conservation tillage



Cross-listed as 2007CMDC-Jasa002.jpg

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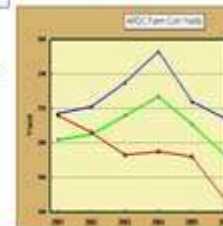


Minnesota Yields

3 Years	C-C	C-B
Conven	167	182
Strip-till	163	183
No-till	183	156

Indiana Yields

3 Years	C-C	C-B	B-C
Fall Plow	171	173	51
No-till	152	175	50
No-till+RR	159	177	50
3-coulters	154	172	51
RR + S-Till	154	171	50



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2007soldays-cornoncorn004

Uniformity

- Spread residue
- Soil structure
- Soil moisture/temp
- Residue attached

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Planting tips

- Plant beside the row
- Uniform seeding
- Plant deep enough
- Consider starter

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Yield loss because of spacing variability

4 bu/A per inch of SD over 2 inches StdDev

Doerge & Hall, 2000

Yield loss because of nonuniform emergence

1-2 leaves behind 50%

3 or more leaves 100%

2006CMDC-Inne29-Nord004.jpg & 2006SolDays-Variability011.jpg

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