



OSAGE, IOWA
EST. **GREEN COUNTRY** 2017
FARMS

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- Grown rye for cover crop seed since 2018
- Relay crop since 2019



Planting corn into cereal rye cover

Relay cropping: a version of double cropping, where the second crop is planted into the first crop before harvest, rather than waiting until after harvest as in true double-cropping.
(UNL-CropWatch)



Two years of relay crop rye/soybeans



Seeding:

Fall of 2018- Cereal rye- Rymin, October 23th, 95 lbs/ac, 15 inch rows

Spring of 2019- Soybeans- 2.1 RM, April 21st, 150,000 sds/ac, 30 inch rows

Fall of 2019- Cereal rye- Rymin, October 9th, 105 lbs/ac, 15 inch rows

Spring of 2020- Soybeans- 1.8 RM, April 19st, 155,000 sds/ac, 30 inch rows



Management

- Standard rye treatment
 - 40-45 pounds of N early spring
 - 65 pounds of P, 160 pounds of K, fall applied
 - Fungicide at flag leaf







2019 Harvest Results



Yield per acre

Conventional Rye: 39.5

Relay Rye: 33.4

Relay Soybeans: 28.3

Conventional 30" Soybeans: 54.6



Gross income per acre

Rye- \$7.50/ bu SB- \$9

Conventional Rye: \$296

Relay: \$505

Conventional 30" Soybeans: \$491





2020 ISA Trial

- Replicated strips
 - 15" rye alone
 - Relay rye/soybeans
 - Soybeans with late terminated rye

2020 Harvest







Harvest 2020 Results

Yield per acre

Conventional Rye: 54.5

Relay Rye: 47.3

Relay Soybeans: 22.2

Conventional 30" Soybeans: 52.3

Gross income per acre

Rye- \$8/bu SB- \$10/bu

Conventional Rye: \$436

Relay: \$598

Conventional 30" Soybeans: \$523



What we learned, what went wrong

- Mother nature always wins
 - Late planting
 - Slow spring growth
 - Little July/August moisture
- Early maturing soybean
- Too much competition for sunlight
- Harvest methods
- Benefits of rye only crop



2021 Changes

- 10" rye spacing
- More nitrogen
- Earlier planting
- Later season soybean, 2.5 RM



Thanks!!



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