



Nebraska On-Farm Research Network

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| Year: | 2010-2012 |
| Title: | Cover Crop Profitability |
| Crop: | Corn/Soybean Rotation |
| Study ID: | 039155201013M3 |
| County: | Saunders |
| Objective: | To determine and document the influence of rye cover crop on the profitability of producing corn/soybeans. |
| Treatments: | Check vs Rye |

2010

Cover Crop Planted: 9/17/09

Corn Planted (GH 9180 GT/CB/LL): 4/9/10

Harvested: 10/21/10

RESULTS:

| Variable | Check | Rye | Prob >/T/ |
|----------------------|-------|---------|-----------|
| Yield, bu/ac @ 15.5% | 207 | 200 | 0.0075*** |
| Moisture, % | 12.6 | 12.5 | 0.4007 nx |
| Cost/ac | -- | \$40.00 | |

2011

Cover Crop Planted: 9/30/10

Soybean Planted (Pioneer 93Y70): 5/3/11

Harvested: 10/4/11

RESULTS:

| Variable | Check | Rye | Prob >/T/ |
|----------------------|-------|---------|-----------|
| Yield, bu/ac @ 13.0% | 56 | 59 | 0.0356** |
| Moisture, % | 9.4 | 9.8 | 0.0722 |
| Cost/ac | -- | \$40.00 | |

Nebraska Soybean & Feed Grains Profitability Project



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2012

Cover Crop Planted: 10/7/11 – Sprayed 3/17/12

Corn Planted (Pioneer 1324 at 38,000 seeds per acre): 5/1/12

Harvested: 9/15/12

RESULTS:

| Variable | Check | Rye | Prob >/T/ |
|----------------------|-------|---------|-----------|
| Yield, bu/ac @ 15.5% | 261.4 | 262.8 | 0.3210 ns |
| Moisture, % | 16.2 | 16.1 | 0.3082 ns |
| Cost/ac* | -- | \$41.67 | |

*Cost breakdown:

Rye Seed = \$12.00

Planting Rye = \$19.10

Spraying Rye = \$6.00

Chemical – Rye = \$4.57

Total = \$41.67

Summary:

In 2010 (corn) the check (no cover crop) treatment resulted in higher grain yields. In 2011 (soybeans), the cover crop treatment resulted in higher grain yields. In 2012 (corn), there was no difference in grain yield for rye versus no rye cover crop treatments.

Nebraska Soybean & Feed Grains Profitability Project



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