



Strip Till Savings

Example in
South Central Minnesota

Fuel Savings Corn to Beans

- Stalk Chopping 0.7 gal/acre = \$2.10
- V Ripping 1.8 gal/acre = 5.40
- Field Cultivate .8 gal/acre = 2.40
- Multiweed .5 gal/acre = 1.50

» Total \$11.40

- Strip Till .41 gal/acre = \$1.23

» Savings \$10.17

Fuel Savings Beans to Corn

- Fall Tillage disk 0.7 gal/ac = \$2.10
- Spring Field cultivate 0.8 gal/ac = 2.40
- Multiweed 0.5 gal/ac = 1.50
- » Total = 6.00

- Strip Till 0.41 gal/ac = \$1.23
- » Savings \$4.77

500 Acre Bean/Corn Rotation

Fuel Savings

- Conventional
 - Corn Fuel \$11.40/ac 250 acres \$2850
 - Bean Fuel 6.00/ac 250 acres 1500
 - » Total \$4350

- Strip Till \$1.23/ac 500 acres \$615
- » Savings \$3735

Nutrient Savings On Corn

By banding nutrients vs broadcast, U of MN, has determined a reduction of 20% - 50% of P and K is a viable practice on higher fertility fields.

Using a 120 - 50 - 75 as a broadcast formula
And a 20% reduction, 40# of P and 60# of K
Will be banded.

Nutrient Savings On Corn

- DAP = \$480/ton Potash = \$280/ton
- Broadcast 120-50-75
- 50# P = \$26.16 75# K = \$17.50
- Banding 120-40-60
- 40# P = \$20.87 60# K = \$14.00
- Savings
- Phosphorus \$5.29 Potash \$3.50

Nutrient Savings For Corn on 250 acres

- DAP \$5.29 on 250 acres \$1322.50
- Potash \$3.50 on 250 acres \$ 875.00
- Application \$5.00 on 250 ac \$1250.00

Total Savings **\$3447.50**

Corn Drying Savings

- With the elimination for the need of fall tillage, one can utilize natural field drying longer.
- 2% Drier corn can safely be anticipated
- \$0.0325 cost per point of moisture drying cost
- 150 bushel per acre corn yield
- $\$0.0325 * 2\% * 150 \text{ bu/ac} * 250 \text{ acres}$
- **Savings** **\$2467.50**

Nutrient Savings On Beans

- Normal Bean nutrient application 16-40-75
- 20% reduction of P and K yields 12-32-60
- Broadcast 16-40-75
- 40# P = \$20.87 75# K = \$17.50
- Banding 12-32-60
- 32# P = \$16.80 60# K = \$14.00
- Savings
- Phosphorus \$4.07 Potash \$3.50

Nutrient Savings For Beans on 250 acres

- DAP \$4.07 on 250 acres \$1017.50
- Potash \$3.50 on 250 acres \$ 875.00
- Application \$5.00 on 250 ac \$1250.00

- Total Savings \$3142.50

Recapping Savings on 500 acres

- Fuels savings corn/beans \$3735.00
- Nutrient savings corn \$3447.50
- Drying savings corn \$2467.50
- Nutrient savings beans \$3142.50

Total Savings \$12,792.50

Additional Savings

There are certain things that carry different value for different operators.

Less trips across the field yields less labor.

Reduced maintenance costs on power units

Reduction of equipment needed to operate the farm

To some, the savings equals off farm employment