





Produce as much as our own feed as possible

Produce highest quality feed possible

While minimizing input costs

And enhancing soil and environmental health

Cover Crop History

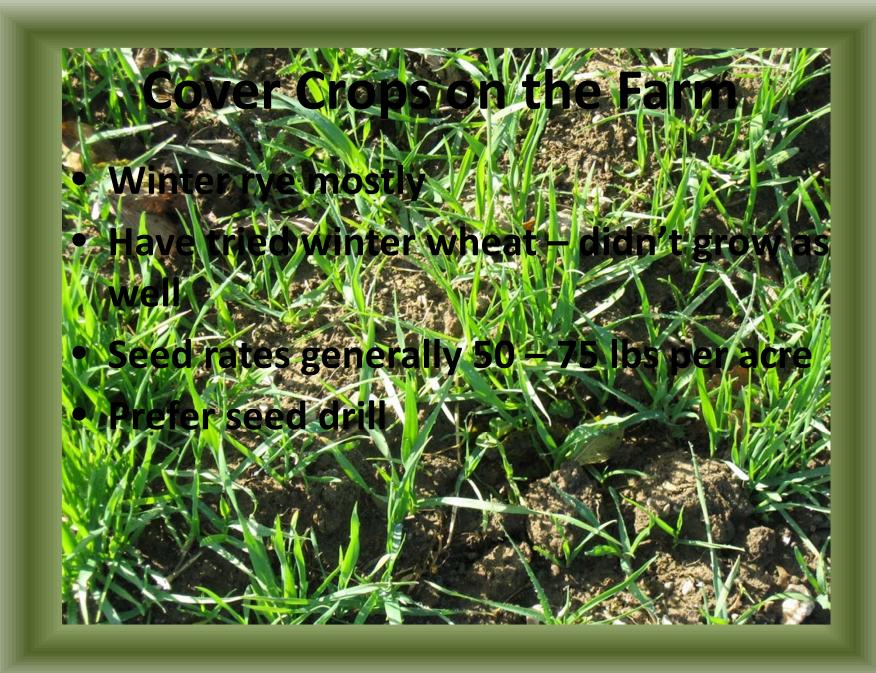
- Cover cropping for about 10 years
- Mostly winter rye cover crops
- Wanted to reduced soil erosion
- Protect water quality



Why We Cover Crop - Benefits

- Organic matter
- Reduces compaction
- Improves soil health
- Aids in water removal from soil
- Stops erosion
- Helps control weeds
- Double cropping
- e Help With the till transition





Soil Types for Cover Crop

First priority – hills and slopes

Second priority – Proximity lake and road

WE DO COVER CROP CLAY SOILS
If we don't make a mess during corn harvest
Many of our fields are tiled

Corn is planted no-till and cover crop sprayed

Manure is fall applied only if conditions are dry



Corn Management



Manure

- Most all manure is spread in fall
- Ideally spread before plant cover crops
- Not incorporating manure nitrogen loss does not offset fuel costs of tillage

Corn & Cover Crop System

- Plant no-till corn (95 RM) into cover crop
- Cover crop is at 6 inches in normal year
- Generally early May
- Spray with pre-emergent herbicide
- Harvest corn early September
- Spread manure
- Plant cover crop soon after

No-Till Planter Modifications

- Made lots of modifications
- Removed all the modifications this past year
 - Couldn't get planter to penetrate
- Now change seed disk every year

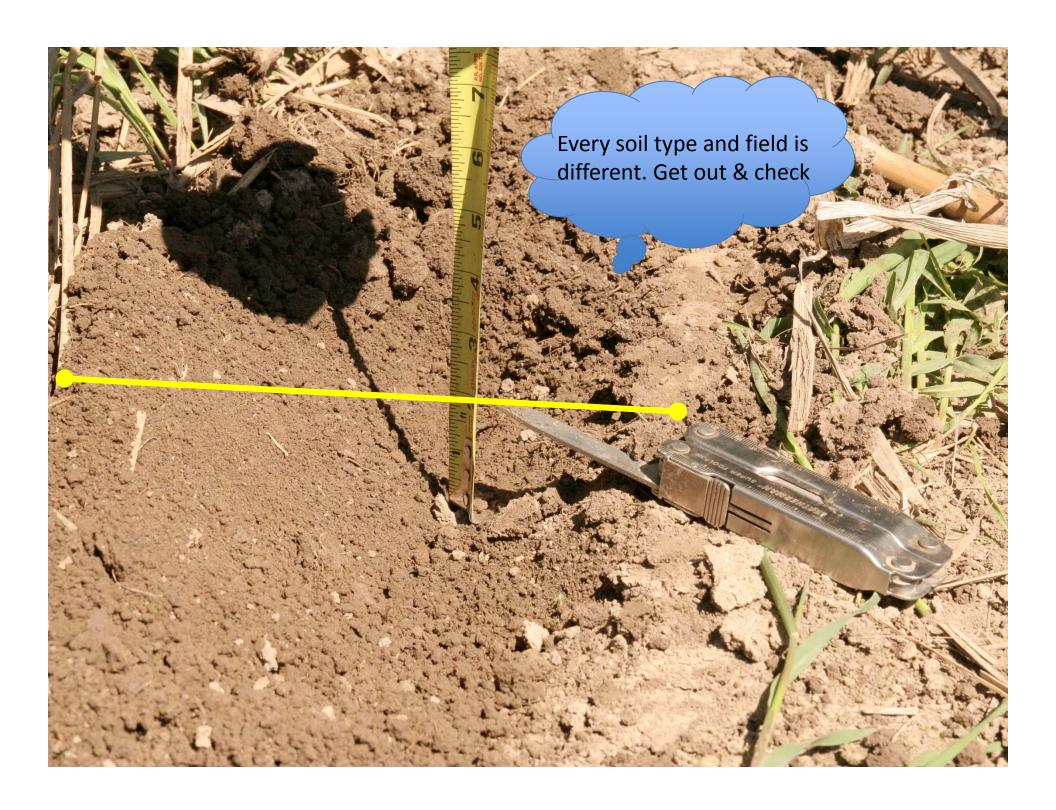


Planter Modifications

- Make sure all bushings are not worn out
- Planter is overhauled each season (3K yearly)
- Use precision planter GPS & planter attachements









- Harvest winter forage 3rd week May
- Plant no-till corn asap
- Spray with standard herbicide program
- Plant RR corn for insurance policy

Current Cover Crop Challenges

 Time to get the cover crop planted during busy harvest season

- Seed accessibility
 - Acquiring seed
 - Getting seed to farm on time

Need my own grain drill

Worst Experience w/ Cover Crops

Tried to till it under – really thick

Planting without GPS

TODAY WE MANAGE THROUGH NO-TILL

VERY SELDOM DO WE PLOW A COVER CROP





Next Best Cover Crop Moment

Double and Triple Cropping

- Harvested Alfalfa, planted corn, planted winter rye cover crop September
- Harvested winter cover crop for feed
- Harvest 100 acres for heifer feed
- Harvested 3rd week of May

Yields

- 1.5 tons of DM per acre
- ½ acreage was drilled and saw much higher yields.

Feed tests

- Crude Protein = 12.8%
- NeL = 0.63 Mcal
- Goal is all heifer feed from cover crops 300 acres

Future Cover Crop Aspirations



