ECOLOGICAL FARMING THROUGH TECHNOLOGY
Pretty conventional
The old way  Minimum till
PHILOSOPHY OF SOIL HEALTH

- Building a year round system focused on the ecosystem surrounding us and profitability
- Living roots all year long through all the seasons
- Healthy, Efficient, Responsible Nutrient Cycling
- Never get your hands dirty
- Progressing through the use technology for better fertilizer and pesticide utilization
IT STARTED WITH GEORGE

- The evolution to planting green over the last 10 years
TODAY

Planting into cover as tall as me
CHALLENGES OF GREEN PLANTING

- Crimping the cover crop that is tall at the time of planting
- Cereals going to heading out and going to seed
- Glyphosate resistant weeds getting to big to kill
- Early seedling fertility
- Slugs
RESISTANT WEEDS AND PLANTING GREEN

- Creative uses of technology and chemistry
- Blended covers finding compliments in nature
KINZE

Closing Wheels, Fertilizer, Row Cleaners
JOHN DEERE
Joanne Whalen did on farm research and came to the conclusion that slugs are worse in cover cropped fields
Positives Planting early

no-till
ADVANTAGES OF PLANTING GREEN

• Planting Early
• Weed control
• Healthier soil
• Erosion control
• Higher yields
Yield from earlier photo
BEANS

Bakers lane test
CORN PLOT

Lusby under a pivot
RESEARCH WITH STEVE MIERSKY AND RAY WEIL

Students and farmers working together
ENVIRONMENTAL IMPACT

- Keeping Nitrogen in the soil
- Trying to figure out the Nitrogen release time and amount

Nitrate in leaching water at 3-4 ft deep
Rock Hall, Md, Feb 2011

Bar chart showing nitrate levels in different categories (C, ME, ML, NC, R) with error bars.
Viele kleine Leute die in vielen kleinen Orten viele kleine Dinge tun, können das Gesicht der Welt verändern. Many small people who in many small places do many small things that can alter the face of the world.
WHY PLANT GREEN?

- It is sound agronomically
- Easy to explain