



Wallendal Farms

Grand Marsh, WI

One Family, One Farm, One Environment

Core Values



- **Innovators**
- **Practicing Integrity**
- **Adaptability**
- **Uphold Family**
- **Partner of Choice**
- **Sustainability**

Vision:

We passionately challenge ourselves to cultivate growth, personally and collectively, in order to create an enduring environmentally-conscious business and family.

Mission Statement:

We will succeed by innovating, producing high quality products, building strong relationships, growing our market intelligence and utilizing production technology.

Overview: The Farm

- 3rd Generation Family Farm
- 3300 acres of row crops and vegetables all under center pivot
- What we grow:
 - *Forage Corn, Seed Corn*
 - *Seed Soy, Non-gmo soy*
 - *Alfalfa*
 - *Snap Beans, Sweet Corn*
 - *Kidney Beans*
 - *Pumpkins*
- Sandy Soil!! Soil is under 1% OM.
- 25% of Acres are Organic or in Transition
- Tech, Research, Growth Focused!



Best Farming Practices

- Conservation Strip Tillage
- Cover Cropping
- IPM Program
- Cultivation
- Research Focused
- Partnerships
- Soil/Water Probes
- Soil Health Focus and conservation application
 - EC Mapping
 - VRT, VRI and VR fertigation
 - Zone Sampling



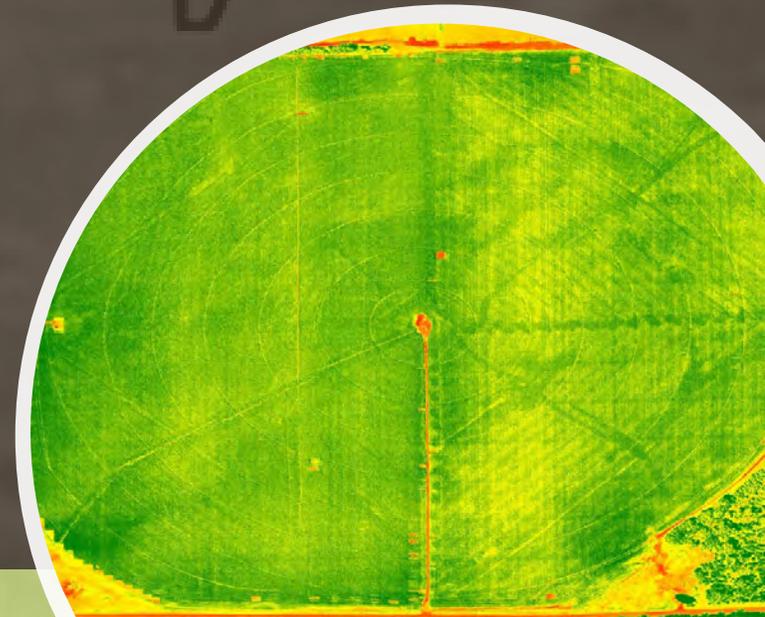
Your Environment is Ours, Too!!

- We work hard to farm sustainably and responsibly.
- We value the education from our historic projects and continue to uphold our established values.
- We work on projects for our environment:
 - Cover Cropping
 - Natural Pollinator Habitat Establishment
 - Ecology Restoration
 - Water Sustainability
 - Wind Erosion Control
 - Ground Water Studies



Research Based!

- Pete worked on NRCS soil sampling
- 1960's strip tillage and cover cropping
- 1988 first grid sampling
- Worked with NASA in 1988 to ground truth NDVI
- 20 year root rot research plot
- UW researcher relationships
- Currently NDVI, VR, and Biologicals research



Organic Transition

Why?

- Soil Health
- Reduced impact on environment
- Productivity
- Environmental regeneration and sustainability
- Experience with Veg Crops
- Demand
- Legacy of our farm

When?

- Started Transitioning in 2015/2016.
- Continuing to transition ground.
- 2016 started Officially organic farming

How?

- 20% Transitioned now, working to transition 33%+



Philosophy of Transitioning

- Increase soil health with use of cover crops
- Reduce the weed bank
- Prepare the land for our anticipated rotation
- Increase cover crop and rotation diversity
- Choose fields that needs soil health attention

How Are We Transitioning?

- 1 or 2 year cover-crop
- Soybeans
- Alfalfa
- Sunflower
- Practicing small scale trials
- Slowly!
- We've chosen ground that benefits most from organic practices.



Breaking Down the Numbers.....

Weathering the Storm

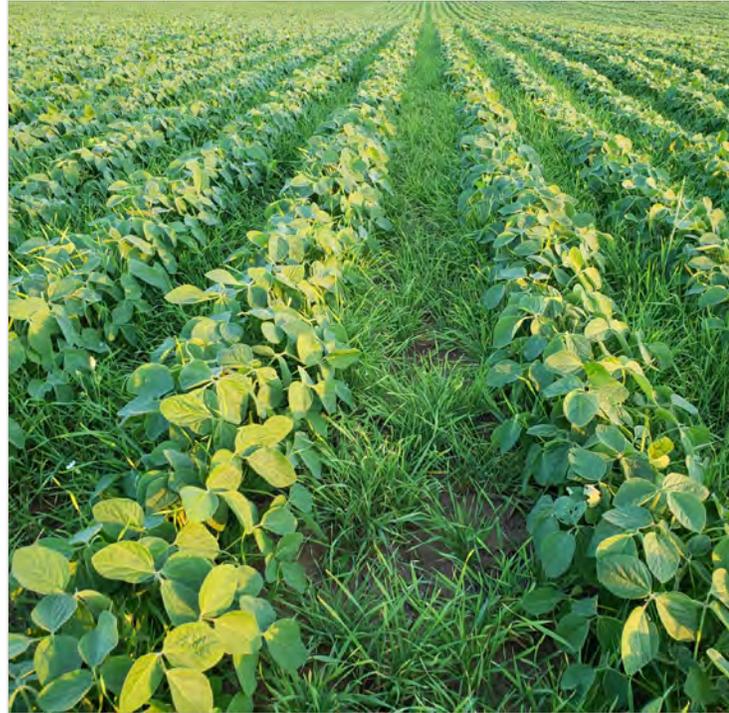
- Costs of weed management
- Cost differential of organic products vs. commercial products
- Front loading field fertility inputs
- Cover crop mixes and costs
- Rental agreements
- Revenue gap (if any)

Weed Management: Different Philosophies

- **Reduced Cultivation & Tillage**
 - Planting into an existing crop
 - Planting into a winter killed cover
 - Tilling and planting into a non-covered field and sowing an inter-crop
- **Traditional Tillage**
 - Tilling field
 - Cultivating until row closure



Weed Management: Reduced Cultivation



June 26th, 2018



July 19th, 2018

Non-vernalized rye spread 10 days, 5 days, and 0 days before planting

Results of Non-vernalized rye: 5-12 bu yield higher than cultivated rye

Weed Management: Reduced Cultivation

- Top Picture: 6/13/2018
- Planted 5/25 and crimped approx. 6/10/2018
- Bottom Picture: 6/26/2018
- Grass weeds starting to come through rye cover
- Soy eventually outgrew grass weeds, but was not a “clean” looking field



Weed Management: Reduced Cultivation



July 20th, 2018



July 29th, 2018

Interseeding!

Corn – Trialed in 2018 – Mix: Crimson Clover, Winter Peas, Teff Grass, Collards

Cucumbers: Trialed in 2018 – Mix: Buckwheat, Kale, Non-vernalized Rye

Weed Management: Cultivation

- Tillage:
 - Sunflower Disc
 - Rubin 9 Lemken
 - Turbo Till
 - Orthman Strip till
- Cultivation Early
 - Tine Harrow
 - Rotary Hoe



Weed Management: Cultivation

- Row crop Cultivation
 - 22" Sukup Rigid Blade Cultivator with Finger Weeders
 - Can get nearly Intra-row
 - 12 row 22" Lilliston Rolling Cultivator
 - Can be adjusted to be aggressive, high speed operations possible



Weed Management: Cultivation

- Row Crop Cultivation
 - Danish Tine Cultivator
 - All around versatile
 - C-shank Cultivator
 - Aggressive use when roots established



Questions?



Why We
Care...
Legacy!!



We are the Wallendal Farms Family

