One Family, One Farm, One Environment

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
  - Soy, Non-gmo soy
  - Snap Beans, Sweet Corn
  - Kidney Beans
  - Pumpkins
  - Fresh Produce
- Sandy Soil! Soil is 1-3% OM.
- 25% of Acres are organic or in Transition
- Tech, Research, Growth Focused!

Best Farming Practices
- Conservation Tillage & Cultivation
- Cover Cropping
- IPM Program
- Research Focused
  - Biologicals, Variety trials, Roller Crimping, Reducing conventional chemical use, etc
- Partnerships
- Soil/Water Probes
- Soil Health Focus and conservation application
  - EC Mapping
  - VRT, VRI and VR fertigation
  - NDVI
  - Zone Sampling

WHY – What are your Cover Cropping Goals?

Know Your Field/Soil adjust your goals to each field need!
WHAT - Keeping The soil Covered
In Spring and Fall

- Multi-species – barley, radish, winter pea, winter wheat
- Winter Wheat

OCT. 17th, 2017

HOW - Next Spring - 5/08/2018

Multi-Species
Winter Wheat

Mixes
- What we DO NOT want to apply
- Growing Degree Days
- Creativity and Availability
- Winter Kill vs Perennials
- Planting on Multiple Passes
- WHY
- WHAT
- HOW

Interseeding – Non-vernalized rye

June 26th, 2018
July 19th, 2018
Interseeding – Cover crop mixes

June 20th, 2018

Roller Crimp Rye with Soy in Organic System

June 13th, 2018

Planted 5/08 – Crimped 6/10

Yield Results this year

<table>
<thead>
<tr>
<th>Rye Spread</th>
<th>Irrigated Yield (bu/ac)</th>
<th>Non-irrigated Yield (bu/ac)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 days before</td>
<td>14.37</td>
<td>16.81</td>
</tr>
<tr>
<td>3 days before</td>
<td>17.84</td>
<td>25.24</td>
</tr>
<tr>
<td>No Rye</td>
<td>50.99</td>
<td>38.74</td>
</tr>
<tr>
<td>Roller Crimp Soy on Corn</td>
<td>18.59</td>
<td>N/A</td>
</tr>
<tr>
<td>Roller Crimp Soy on Soy</td>
<td>22.23</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Decision Tree – Goals, WHY, WHAT, HOW

Megan Wallendal
Megan@WallendalFarms.com