Soil Health Specialist Training

WORKSHOP 3
ELIMINATING REDUCING OR MODIFYING TILLAGE
8/6/19
Day 1 – Tuesday, Aug 6th Schedule

- 9:30 – 10:00 am Agenda for Third Workshop, Aaron Ristow and Joseph Amsili
- 10:00 – 11:00 am Soil Health: History, Geography, and Opportunities in New York State, Harold van Es, Cornell
- 11:00 am – 12:00 pm Nutrient Management in No-Till/Reduced Till Systems Farmer Panel with John Kemmeren, Dave Magos, and Jay Swede moderated by Paul Salon
- 12:00 – 1:00 pm Soil Health Lunch Sponsored by King’s Agriseeds
- 1:00 – 2:00 pm Cover Crop Field Demo by Rod Porter, Kings AgriSeeds, Adam Robertson, SeedWay, Paul Salon
- 2:00 – 2:40 pm Pests and Diseases in Corn and Soybean: Management in No-Till Systems, Jaime Cummings, NYS IPM Field Crops and Livestock Coordinator, Cornell
- 3:00 – 4:00 pm Group Activity
- 6:00 pm Dinner Reservations (but no required)
Day 2 – Wednesday, Aug 7th Schedule

• 8:30 – 9:10 am Coffee and Welcome
• 9:10 – 9:50 am Penn State Planting Green Research Summary, Heidi Reed, PSU Extension
• 10:00 – 11:00 am Managing for Healthier Soils and Cleaner Water, Jim Hershey, PA No-Till Alliance
• 11:00 am – 12:00 pm Successes and Challenges with Planting Green in NY and PA Farmer Panel with Donn Branton, John Macauley, and Jim Hershey
• 12:00 – 1:00 pm Soil Health Lunch Sponsored by King’s Agriseeds
• 1:30 – 2:00 pm Tillage and Manure Spreading Demo with Shawn Bossard and Rob Cross
• 2:00 – 3:00 pm Tillage Tour with Greg Albrecht and Dale Gates
• 3:15 – 4:00 pm Effects of Reduced Tillage on Beneficial Arthropods, Karly Regan, Cornell AgriTech

Photo: John Macauley
**Quarterly Reporting Reminder**

<table>
<thead>
<tr>
<th>Specialist Trainer:</th>
<th>Reporting date:</th>
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**What have you learned about topics surrounding soil health since your last report?**

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**All forms and tracking tools:**
https://soilhealth.cals.cornell.edu/workshops/american-farmland-trust/

**Email reminder end of June**

**Reports due August 2\(^{nd}\), 2019**

**Need report to receive stipend**
Save the Date: Workshop # 4: Oct. 29th-30th

• In Hudson, NY.
Gary Swede Farm
4500 acres total; 1500 for analysis
WHT/ALF/SWC/COS
Began to change in 2007

**Standard practices**
- Intensive management
- Moldboard plow/Culti-mulcher/Field Cultivator

**Soil Health practices**
- Strip-till/No-till on all crops/all acres
- Cover crops (Oats, Radishes or a mix, Wheat) after corn silage and sweet corn (450/ac/yr).
# Economic Impact of Implementing Strip Tillage and Cover Crops Dairy Rotation

## Increases in Net Income

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<thead>
<tr>
<th>Item</th>
<th>Per Acre</th>
<th>Acres</th>
<th>Total</th>
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<tbody>
<tr>
<td>Reduced Machinery Cost due to Reduced Tillage</td>
<td>$23.43</td>
<td>1,500</td>
<td>$35,152</td>
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<tr>
<td>Nutrient Savings due to Nutrient Management</td>
<td>$40.65</td>
<td>600</td>
<td>$24,390</td>
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<tr>
<td>Value of Decreased Erosion due to Soil Health Practices</td>
<td>$2.25</td>
<td>1,500</td>
<td>$3,369</td>
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<tr>
<td>Total Increased Income</td>
<td></td>
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<td>$43,168</td>
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## Decreases in Cost

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<thead>
<tr>
<th>Item</th>
<th>Per Acre</th>
<th>Acres</th>
<th>Total</th>
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<tbody>
<tr>
<td>Cost of Setting up Planter to Handle Residue</td>
<td>$0.72</td>
<td>600</td>
<td>$432</td>
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<tr>
<td>Cover Crop Costs</td>
<td>$51.00</td>
<td>450</td>
<td>$22,950</td>
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<tr>
<td>Residue and Tillage Management Learning Activities</td>
<td>$0.07</td>
<td>1,500</td>
<td>$98</td>
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<tr>
<td>Cover Crops Learning Activities</td>
<td>$0.22</td>
<td>450</td>
<td>$98</td>
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<tr>
<td>Nutrient Management Learning Activities</td>
<td>$0.16</td>
<td>1,500</td>
<td>$244</td>
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<tr>
<td>Total Decreased Cost</td>
<td>$62,912</td>
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## Annual Change in Total Net Income

$82,257

## Annual Change in Per Acre Net Income

$55
SAVE THE DATE

Soil Health Field Day
Cover Crop Mixtures
Demonstration Plots
Thursday August 29, 2019

Macauley Farms LLC
5815 Swan Hill Road
Mount Morris, 14510
10 am to 2pm

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