Shifting local trends with cover crops and short season corn

Caroline van Schaik
Land Stewardship Project

We gratefully acknowledge funding from USDA Sustainable Agriculture Research and Education Program ONC15-009
species mix in southeast MN, December 2015

Radish, hairy vetch, oats
Planted 8-15-2015
Photo taken 9-30-2015

Southeast MN. (JG)
Planted 8-5-2015
Photos taken 10-30-2015
Peas and barley
Southeast MN. (DR)
Planted 4-28-2015
Balage 6-20-2015
Photos taken 6-16-2015
Winter rye after 88-day corn
Southeast MN. (LD)
Corn harvested 10-19-2015
Planted 10-27-2015
Photos taken 11-6-2015
Radish, oats, clover into wheat
Western MN. (KP)
Photos taken October 2015
### Management results in a permanent pasture vs a corn field

<table>
<thead>
<tr>
<th>Nutrient</th>
<th>Quantity Available for Next Crop</th>
<th>Nitrogen Savings by using the Haney Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen</td>
<td>lbs N/A</td>
<td>55.9 Traditional evaluation, lbs N/A</td>
</tr>
<tr>
<td>Phosphorus</td>
<td>lbs P2O5/A</td>
<td>59.9 Haney Test N evaluation, lbs N/A</td>
</tr>
<tr>
<td>Potassium</td>
<td>lbs K2O/A</td>
<td>47.0 Nitrogen Difference, lbs N/A</td>
</tr>
<tr>
<td>Nutrient Value</td>
<td>S/A</td>
<td>82.61 N savings, S/A</td>
</tr>
</tbody>
</table>

**Select Haney Soil Test Values, Fall 2015**

- Organic Matter: 7
- Solvita CO2-C: 14.1
- Organic C:N: 19
- Organic N Release: 8.9
- Soil Health Calculation: 15.64
- Available N: 5.87
- Lbs N Difference: 57.8