# 2017 MCCC Michigan State report

## Contact Information
Name: Dean Baas, Michigan State University Extension  
Email: baasdean@anr.msu.edu  
Phone: 269-967-9672

## RESEARCH- On-going cover crop research (by primary discipline)

<table>
<thead>
<tr>
<th>Name(s)</th>
<th>Project title/objective</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>COMMODITY SPECIFIC</strong></td>
<td></td>
</tr>
<tr>
<td>Baas, D.</td>
<td>Evaluation of oilseed radish added to wheat to increase wheat yields in Michigan</td>
</tr>
<tr>
<td>Baas, D. and P. Gross</td>
<td>Using cover crops with wheat to improve rotational profitability</td>
</tr>
<tr>
<td>Bird, G., Kates, P and Quintanilla, M.</td>
<td>SCN Trap Crop Development</td>
</tr>
<tr>
<td>Basso, B., Quintanilla, M., Rosenweig, N., Bird, G., and Otto, M.</td>
<td>Integrated Advancing Technologies for Increasing Sustainability of Michigan Potato Systems</td>
</tr>
<tr>
<td>Hill, E.</td>
<td>Maximizing the cover crop potential of cereal rye before soybean through alternative termination timings and methods. Michigan Soybean Promotion Committee</td>
</tr>
<tr>
<td>Hill, E.</td>
<td>Maximizing cover crop biomass production and weed suppression in field crop rotations by ‘planting green’. Project GREEEN</td>
</tr>
<tr>
<td>Long, C., L. Tiemann, N. Rosenzweig, and E. Hill</td>
<td>Impact of increased cropping system diversity as measured by improved productivity and sustainability in a Michigan potato production system. Project GREEEN and MI Potato Industry Commission 2016 &amp; 2017</td>
</tr>
<tr>
<td>Renner, K., C. Sprague, A. Brooker.</td>
<td>Interseeded cover crop tolerance to soil-applied and post-emergence herbicides in corn. Corn Marketing Program 2018. Submitted to GREEEN 2018</td>
</tr>
</tbody>
</table>
### FORAGES/FEED

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wilke, B., H. Straub III, S. Utsumi</td>
<td>Integrating Annual Forages into a perennial grazing systems</td>
</tr>
</tbody>
</table>

### PEST/DISEASE MANAGEMENT

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bird, G., J. Shoemaker (M.S. Student)</td>
<td>Accessing the trap crop potential of cover crops for control of Soybean Cyst Nematode</td>
</tr>
</tbody>
</table>

### SOIL FERTILITY

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Title</th>
</tr>
</thead>
</table>

### SOIL SCIENCE/HEALTH/BIOLOGY-OTHER

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kravchenko, S., K. Renner, A. Guber, and M. Thelen (New student coming soon)</td>
<td>Topographically diverse landscape influences on cover crop establishment and ecosystem services in corn and wheat cropping systems. Project GREEEN 2016, CRDF Global 2017-2019, USDA-Org Transition submitted</td>
</tr>
<tr>
<td>Snapp, S. et al.</td>
<td>Long Term Ecological Research with some rotations including cover crops</td>
</tr>
</tbody>
</table>

### PUBLICATIONS, EXTENSION/OUTREACH


**MSU EXTENSION NEWS ARTICLES AVAILABLE @** [www.covercrops.msu.edu](http://www.covercrops.msu.edu)


**Other News Articles**

**PUBLICATIONS, REFEREED**


**PRESENTATIONS, EXTENSION**

**Grower Field Days**
- Cover Crop Field Day-Recker Farm (P. Gross and D. Baas)
- Grove Farm Cool Season Field Day-MMCN October Program (P. Gross)
- Grove Farm Plots – April Meetings (P. Gross)
- Bracy Ag Services Field Day (D. Baas)
- Cover Crop Field Day (P. Gross and C. Curell)
- Cropping and Topping Field Day (P. Gross)
- Kellogg Biological Station-Fall Cover Crop Field Day- Hickory Corners, MI (D. Baas, D. Brainard, K. Renner, V. Morrone and B. Wilke)
- Kellogg Biological Station Grazing School, Hickory Corners, MI (B. Wilke)
- On-Farm Research Review: Alpena, February 2017 (K. Renner)
- MSU Weed Day: East Lansing, June 2017 (K. Renner)
- Center of excellence Field Day: Clayton, August 2017 (K. Renner)
• Corn Variety and Cover Crop Interseeding Field Day: Hillman, September 2017 (K. Renner)

Grower Meetings
• MFFC- Organic Low-Till Small Farm- Insect and Weed Considerations (D. Baas and P. Gross)
• Zeeland Farm Services Meeting (D. Baas)
• Macomb Smart Gardening Conference (D. Baas)
• MCTA Summer Meeting (P. Gross)
• West MI Growers Group- Soil Fertility (C. Curell)
• Wedel’s Spring Expo (C. Curell)
• MABA winter conference: Lansing, January 2017 (K. Renner)
• Crop and Pest Management Meeting: Interseeding Cover Crops in Corn in MI. , Alpena, January 2017 (K. Renner)

Conservation Districts/NRCS/Drain Commission Field Days/Meetings
• Genesee County Field Day Soil Health: and Equation for Success (D. Baas and P. Kaatz)
• Make your soil great again field day – Elkhart County, IN (D. Baas)
• 2017 Conservation Event – Allegan County (D. Baas)
• Natural Resource Conservancy- Interseeding Cover Crops into Corn in Michigan, 2015-2017 (K. Renner)
• Benzie/Antrim Farm Bureau Annual Meeting (C. Curell)
• Osceola County Summer Tour (C. Curell)

PRESENTATIONS, SCIENTIFIC/SOCIETY

MICHIGAN STATE UNIVERSITY COURSES THAT DISCUSS COVER CROPS
CSS 101- Introduction to Crop Science
CSS 101L- Introduction to Crop Science Lab
CSS 201- Forage Crops
CSS 212- Advanced Crop Production
CSS 288- Principles of Weed Management
CSS 360- Soil Biology
CSS/BSE/FOR 467- BioEnergy Feedstock Production
CSS 480- Soil Fertility and Nutrient Management
CSS 488- Agricultural Cropping Systems: Integration & Problem Solving

ENT 205H- Pests Society and the Environment
ENT 479- Organic Pest Management
HRT 251- Organic Farming Principles and Practices
HRT 341- Vegetable Production and Management