### Contact Information
Name: Kim Cassida, Forage & Cover Crop Specialist, MSU  
Email: cassida@msu.edu, Phone: 517-353-0278

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

<table>
<thead>
<tr>
<th>Name(s)</th>
<th>Project title/objective</th>
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<tbody>
<tr>
<td><strong>COMMODITY SPECIFIC</strong></td>
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<tr>
<td>Bird, G., Kaatz, P and Quintanilla, M.</td>
<td>SCN Trap Crop Development</td>
</tr>
<tr>
<td>Basso, B., Quintanilla, M., Rosenzweig, N., Bird, G., and Otto, M.</td>
<td>Integrated Advancing Technologies for Increasing Sustainability of Michigan Potato Systems</td>
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<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>
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<tr>
<td>Hill, E.</td>
<td>Maximizing cover crop biomass production and weed suppression in field crop rotations by ‘planting green’. Project GREEEN</td>
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<tr>
<td>Jean, M. and E. Hill</td>
<td>Millet Variety trial in potato production. 2017 &amp; 2018</td>
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<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>
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<tr>
<td><strong>FORAGES/FEED</strong></td>
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<tr>
<td>Cassida, K.A., and J.J. Paling</td>
<td>Annual Forage Variety Tests</td>
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<tr>
<td>Cassida, K.A., and J.J. Paling</td>
<td>Red Clover Variety Tests</td>
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Singh, M., B.J. Wilke. Developing profitable double crop systems after winter barley. NCR SARE Partnership Program, 2018-2020

Wilke, B., H. Straub III, S. Utsumi. Integrating Annual Forages into a perennial grazing systems

Wilke, B.J., K.A. Cassida. Double cropping with cereal grain forages

PEST/DISEASE MANAGEMENT

Bird, G., J. Shoemaker (M.S. Student). Accessing the trap crop potential of cover crops for control of Soybean Cyst Nematode


SOIL FERTILITY


SOIL SCIENCE/HEALTH/BIOLOGY - OTHER

Asher, A. J., Tiemann, L. K., Ehsan, G. Connecting Soil Health Functions to Water Quality at Edge of Field and Watershed Scale (MDARD funding)


Snapp, S. et al. Long Term Ecological Research with some rotations including cover crops

Tiemann, L. K. Building soil health through rotational diversity and soil microorganisms (Foundation for Food and Agriculture Research funding)

PUBLICATIONS, EXTENSION/OUTREACH

Bulletins and Factsheets


MSU Extension News Articles Available @ www.covercrops.msu.edu

• Baas, D. 2018. Cover Crop Field Walk on April 26 to focus on winter survival. MSU Extension news. April 17, 2018.
• Baas, D. 2018. Cover crop field day hosted at Kellogg Biological Station. MSU Extension news. October 25, 2018.

Webinars


PUBLICATIONS, SCIENTIFIC

Refereed

• Maestrini, B., Basso, B. 2018. Drivers of within-field spatial and temporal variability of crop yield across the US Midwest. *Scientific Reports*, 8 (1), art. no. 14833,

**Thesis/Dissertation**

**PRESENTATIONS, EXTENSION**

**Grower Field Days**
• April 20, 2018. Cover Crop Field Walk, Midland MI. Attended by 10 (P. Gross, C. Curell)
• May 10, 2018. Cover Crop Field Walk, Manistee, MI. Attended by 20. (C. Curell)
• June 16, 2018. Field Day on the Farm - Waishkey Bay Farm, Brimley, MI. Attended by 37. (D. Baas)
• Aug. 8, 2018. Center of Excellence Field Day. Attended by 100. (K. Renner)
• Aug. 9, 2018. Cover Crop Field Walk, Clinton County, MI. Attended by 12. (P. Gross, D. Baas)
• Sep. 20, 2018. Cover Crop Field Walk, North Branch, MI. Attended by 31. (C. Curell, P. Kaatz)
• Oct. 18, 2018. Cover Crop Field Walk, Focus on covers as forages. Attended by 13 (Gross, Thurlow, Lindquist)
• Nov. 1, 2018. Cover Crop Field Day. Kellogg Biological Station, Hickory Corners, MI. Attended by 45. (Brook Wilke, D. Baas)

Grower Meetings

• Jan 30-Feb 1, 2018. Mid-Atlantic Fruit and Vegetable Convention ‘Healthy soils and cover crops for roots, tubers’ Talk for growers at Hershey, PA. (S. Snapp)
• Feb. 7, 2018. Southwest Fruit Days Benton Harbor MI. Attended by 100 (C. Curell)
• Feb 22, 2018. “Managing soils and cover crops for healthy crops” Saginaw Bay Watershed Conservation Lunch and Learn Series (S. Snapp)
• May 8, 2018 - Doubling Up: Forages as Cover Crops, St. Joseph County 2018 Breakfast Meeting. (K. Cassida)
• Sept. 11, 2018. Cover Crops in Nurseries. Lake City, MI. Attended by 40 (C. Curell)

Conservation Districts/NRCS/Drain Commission Field Days/Meetings

• March 9, 2018. Creative Management Options: Forage and Manure. Elkhart County Soil and Water Conservation District Bank on your Roots Cover Crop Meeting and Tradeshow. Elkhart, IN. ~100 participants. (B. Wilke)
• Aug. 7, 2018. Nature Conservancy Lunch and Learn, Richville MI. Attended by 60. (C. Curell)
• Aug. 24, Kent County Summer Cover Crop and Soil Health Tour. Attended by 75 (C. Curell)
• Sept. 18, 2018. Barry County Conservation District Aerial Cover Crop Seeding Field Day. ~40 participants. (B. Wilke).
• Sept. 26, 2018 Cisco Seed Field Day. Blanchard MI. Attended by 25 (P. Gross, C. Curell)
• August 23, 2018. Blue Water Conservation District Meeting, St Clair County, Benefits of Cover Crops in Rotations, attended by 35 (Gross)
• Sept. 6, 2018, Ionia County SCD, Cover Crops and Soil Health. Attended by 12 (Gross)
• October 26, 2018, Missaukee Co SCD, McBain MI, Cover Crop Field Day. (Curell, Gross)

Extension Schools and Training

PRESENTATIONS, SCIENTIFIC/SOCIETY


**MICHIGAN STATE UNIVERSITY COURSES THAT DISCUSS COVER CROPS**

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<tr>
<th>Course Code</th>
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<tr>
<td>CSS 101-</td>
<td>Introduction to Crop Science</td>
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<tr>
<td>CSS101L-</td>
<td>Introduction to Crop Science Lab</td>
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<tr>
<td>CSS 201-</td>
<td>Forage Crops</td>
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<tr>
<td>CSS 212-</td>
<td>Advanced Crop Production</td>
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<tr>
<td>CSS 288-</td>
<td>Principles of Weed Management</td>
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<tr>
<td>CSS 360-</td>
<td>Soil Biology</td>
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<tr>
<td>CSS/BSE/FOR 467-</td>
<td>BioEnergy Feedstock Production</td>
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<tr>
<td>CSS480-</td>
<td>Soil Fertility and Nutrient Management</td>
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<tr>
<td>CSS 488-</td>
<td>Agricultural Cropping Systems: Integration &amp; Problem Solving</td>
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<tr>
<td>ENT 205H-</td>
<td>Pests Society and the Environment</td>
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<tr>
<td>ENT 479-</td>
<td>Organic Pest Management</td>
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<tr>
<td>HRT 251-</td>
<td>Organic Farming Principles and Practices</td>
</tr>
<tr>
<td>HRT 341-</td>
<td>Vegetable Production and Management</td>
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</tbody>
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To learn more about particular projects, contact the investigators:
Baas, Dean <baasdean@msu.edu>; Basso, Bruno <basso@msu.edu>; Brainard, Daniel <brainard9@msu.edu>; Burns, Erin <burnser5@msu.edu>; Cassida, Kimberly <cassida@msu.edu>; Curell, Christina <curellc@msu.edu>; Dedecker, James <dedecke5@msu.edu>; Gross, Paul <grospp@msu.edu>; Hausbeck, Mary <hausbec1@msu.edu>; Hill, Erin <hiller12@msu.edu>; Jean, Monica <atkinmon@msu.edu>; Kaatz, Philip <kaatz@msu.edu>; Kravchenko, Alexandra (kravche1@msu.edu); Long, Christopher <longch@msu.edu>; Melakeberhan, Haddish, <melakebe@msu.edu>; Morrone, Vicki <sorrone@msu.edu>; Renner, Karen <renner@msu.edu>; Rosenzweig, Noah <rosenzw4@msu.edu>; Rowntree, Jason <rowntre1@msu.edu>; Quintanilla Tornel, Marisol <marisol@msu.edu>; Singh, Maninderpal <msingh@msu.edu>; Sprague, Christy <sprague1@msu.edu>; Steinke, Kurt <ksteinke@msu.edu>; Snapp, Sieglinde <snapp@msu.edu>; Szendrei, Zsofia <szendrei@msu.edu>; Tiemann, Lisa <ltiemann@msu.edu>; Wilke, Brook <wilkebro@msu.edu>.