LAMPS is a multi-location, field-based chronosequence experiment aimed at addressing the challenges and questions facing those interested, and engaged in Miscanthus × giganteus production, agronomy, physiology, modeling and economics. By utilizing multiple nitrogen application rates, and three locations across the state of Iowa, this experiment is uniquely able to address this wide range of applied and basic research questions.

### Preliminary Results

**Midday leaf photosynthesis**

Throughout the growing season, N application rate seemed to increase net carbon assimilation rate. It does appear however, that at the 400 lbs/acre rate, carbon assimilation was negatively impacted.

**Fall 2015 Hand Harvest**

Hand harvested yields were collected at each location. Two 1-m² samples were collected from each plot. Nitrogen application rate effected yields at the Central location (see photo below) more than other sites.
Long-term Assessment of Miscanthus Productivity and Sustainability

Events

Past
SE Research Farm Field day – 9/21/15
Dr. Boersma and Mauri Tejera spoke about Miscanthus and LAMPS – See our new Facebook page for more information!
www.facebook.com/ISUBIOMASS

Upcoming
Farmer engagement and information meeting – Planning for the beginning of March in SE Iowa
PhD student Mauri Tejera will speak about end of season yields, N responses (or lack thereof), and physiology of Miscanthus. We will also discuss our upcoming planting season and potentially our experiences with mechanical harvest

Talk to us!
• We are on Facebook! Please like and share our page to learn more about LAMPS and other biomass research at Iowa State University
www.facebook.com/ISUBIOMASS
• View our website for upcoming field days, and for more information about LAMPS:
http://faculty.agron.iastate.edu/heaton/NewsEvents.html
• LAMPS is led by Emily Heaton, Nicholas Boersma and Catherine Bonin at Iowa State University
• For more information, or if you have inquiries please contact us:
• Nicholas Boersma, PhD, Director of LAMPS – nboersma@iastate.edu