

Kassidy Buse

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EDUCATION

University of Nebraska-Lincoln

Lincoln, NE

Doctorate of Philosophy in Ruminant Nutrition

Aug. 2020 – Present

- Advisor: Dr. Paul Kononoff
- Dissertation Title: Reduced-lignin alfalfa in dairy rations: characterization and effects on energy and nitrogen partitioning in dairy cattle

University of Nebraska-Lincoln

Lincoln, NE

Master of Science in Ruminant Nutrition

Aug. 2018 – Aug. 2020

- Advisor: Dr. Paul Kononoff
- Thesis Title: Characterization of protein and fat in dairy feeds and implications on digestibility and milk composition

Iowa State University

Ames, IA

Bachelor of Science in Animal Science, Minor in Business

Aug. 2014 – May 2018

EXPERIENCE

Dairy Nutrition Research Coordinator

Sep. 2020 – Present

University of Nebraska-Lincoln

Lincoln, NE

- Contribute to the experimental design, data collection, and analysis of trials conducted by the Dairy Research Team
- Assist in the feeding, milking, and general care of research animals
- Prepare materials that summarize research for presentation at various conferences and meetings

Hay and Forage Grower Magazine Editorial Intern

May 2018 – May 2019

W. D. Hoard & Sons

Fort Atkinson, WI

- Contribute articles and photos to the weekly eHay newsletter as well as the 6 print magazines published each year
- Travel to conferences, conventions, and operations to obtain content for any WD Hoards & Sons publications
- Assist in the editing process of all articles of Hay and Forage Grower and Hoard's Dairyman magazines

CycloneLife.net Student Blogger

Sep. 2014 – May 2018

Iowa State University Office of Admissions

Ames, IA

- Produced weekly posts for current and potential students based on campus activities, services, and lifestyle
- Submitted two photos weekly for social media accounts and advertising
- Monitored and encouraged conversation and questions in incoming classes' Facebook groups

AnS 337 Undergraduate Teaching Assistant

Jan. 2018 – May 2018

Iowa State University Department of Animal Science

Ames, IA

- Attended lectures to assist with in class activities, quizzes, presentations, and exams
- Lead and prepared three lectures, one lab, and one major course project
- Graded quizzes, exams, and projects as well as respond to student inquiries in a timely manner

Undergraduate Research Assistant

Sep. 2017 – Dec. 2017

Iowa State University Department of Animal Science

Ames, IA

- Assisted with calf feedings, weighing feed, water, and milk amounts offered and refused
- Aided in data collection of weight, measurements, and blood and fecal samples of calves
- Attended bimonthly meetings to review results, procedures, and schedules of research

AnS 225 Undergraduate Teaching Assistant

Aug. 2017 – Dec. 2017

Iowa State University Department of Animal Science

Ames, IA

- Attend weekly meetings to discuss course materials to increase course efficiency
- Assist in leading labs and lectures, answering questions, and facilitating discussion
- Grade homework, quizzes, and other paperwork in a timely manor

Agronomy Intern

Eldon C. Stutsman, Inc

May. 2017 – Aug. 2017

Hills, IA

- Scout fields in assigned territory and other fields as needed for weeds, insects, disease, and other issues and report findings back to grower, salesman, and supervisor
- Research weekly assigned topics in agronomy and report research back to supervisor and fellow interns
- Assist other employees throughout the company with various tasks as needed

Summer 4-H Assistant

Turner County Extension Office

Summer 2015 & 2016

Parker, SD

- Scanned and entered verification papers, entries, and registration papers into the online 4-H database
- Assisted county 4-H Coordinator with planning and running events
- Managed livestock shows and other 4-H programs during county fair

PUBLICATIONS

Peer-Reviewed Articles

- Buse, K., D. Morris, H. Diaz, O. Drechsel, P. Kononoff. 2020. Comparison of methods to determine ruminal degradation and intestinal digestibility of protein in hydrolyzed feather meal. *J. Dairy Sci. Short. Comm. Currently in review.*
- Buse, K., D. Morris, P. Kononoff. 2020. The effect of a unique high omega 3 fatty acid supplement on milk fatty acid profile and energy utilization of lactating Jersey cows. *J. Dairy Sci. Currently in review.*

Scientific Meeting Abstracts

- Buse, K., D. Morris, P. Kononoff. 2020. The effect of a unique high omega 3 fatty acid supplement on milk fatty acid profile and energy utilization of lactating Jersey cows. *J. Dairy Sci. Vol 103, Suppl. 1.*
- Buse, K., D. Morris, and P. Kononoff. 2019. Ruminal degradation and intestinal digestibility of hydrolyzed feather meal with and without blood. *J. Dairy Sci. Vol 102, Suppl. 1.*
- McLain, K., K. Buse, T. Brown-BRANDL, D. Morris, and P. Kononoff. 2019. Use of mass flow meter in headbox-style indirect calorimetry, and the effects of gas recovery on estimated energy partition in lactating dairy cows. *J. Dairy Sci. Vol 102, Suppl. 1.*

Newsletter Articles

- Buse, K. 2020. Adjusting rations to accommodate constraints on feed and milk supply caused by COVID-19. *UNL Dairy Extension Newsletter. May.*
- Buse, K., K. Krogstad. 2019. UNL Graduate Students serve as Officials for State Youth Dairy Judging Contest. *UNL Dairy Extension Newsletter. September.*
- Buse, K. 2019. Pastures need rest, too. *Hay and Forage Grower: eHay Weekly. May 14.*
- Buse, K. 2019. Shift winter wheat gear to forage. *Hay and Forage Grower: eHay Weekly. May 7.*
- Buse, K. 2019. What's best for 2019: quality or quantity. *Hay and Forage Grower: eHay Weekly. April 29.*
- Buse, K. 2019. High stock density offers several advantages. *Hay and Forage Grower: eHay Weekly. April 16.*
- Buse, K. 2019. Reduce your risk for mycotoxins. *Hay and Forage Grower: eHay Weekly. April 9.*
- Buse, K. 2019. Consider these spring-planted forage options. *Hay and Forage Grower: eHay Weekly. April 2.*
- Buse, K. 2019. Saved seed has legal implications. *Hay and Forage Grower: eHay Weekly. March 26.*
- Buse, K. 2019. Grazing legumes can benefit some horse types. *Hay and Forage Grower: eHay Weekly. March 19.*
- Buse, K. 2019. Check alfalfa stands this spring. *Hay and Forage Grower: eHay Weekly. March 12.*
- Buse, K. 2019. Relative forage quality is the better bet. *Hay and Forage Grower: eHay Weekly. March 5.*
- Buse, K. 2019. Researching varieties pays dividends. *Hay and Forage Grower: eHay Weekly. February 26.*
- Buse, K. 2019. Mycotoxins remain a silage challenge. *Hay and Forage Grower: eHay Weekly. February 21.*
- Buse, K. 2019. Keep grass tetany at bay. *Hay and Forage Grower: eHay Weekly. February 18.*
- Buse, K. 2019. Coming down the gestation home stretch. *Hay and Forage Grower: eHay Weekly. February 12.*
- Buse, K. 2019. Study finds no benefit to foliar feeding. *Hay and Forage Grower: eHay Weekly. January 29.*
- Buse, K. 2019. Stretch those hay supplies. *Hay and Forage Grower: eHay Weekly. January 15.*
- Buse, K. 2019. Time to make a plan. *Hay and Forage Grower: eHay Weekly. January 8.*
- Buse, K. 2019. Shopping for hay is like shopping for a truck. *Hay and Forage Grower: eHay Weekly. January 2.*
- Buse, K. 2018. Time to step up your feeding game. *Hay and Forage Grower: eHay Weekly. December 26.*
- Buse, K. 2018. Fiber drives meal behaviors. *Hay and Forage Grower: eHay Weekly. December 18.*

- Buse, K. 2018. These factors drive cornstalk-grazing contracts. Hay and Forage Grower: eHay Weekly. December 4.
- Buse, K. 2018. Cow size, forage quality key winter feed needs. Hay and Forage Grower: eHay Weekly. November 27.
- Buse, K. 2018. Can alfalfa be grazed during the fall? Hay and Forage Grower: eHay Weekly. November 13.
- Buse, K. 2018. Forage amino acids and horse health. Hay and Forage Grower: eHay Weekly. November 6.
- Buse, K. 2018. Get ahead of tall fescue problems this fall. Hay and Forage Grower: eHay Weekly. October 30.
- Buse, K. 2018. Prussic acid poisoning threat to peaking. Hay and Forage Grower: eHay Weekly. October 23.
- Buse, K. 2018. Baleage lowers harvest risk. Hay and Forage Grower: eHay Weekly. October 16.
- Buse, K. 2018. A corn silage Christmas Carol. Hay and Forage Grower: eHay Weekly. October 9.
- Buse, K. 2018. Strip-graze your stockpiled forages. Hay and Forage Grower: eHay Weekly. October 2.
- Buse, K. 2018. CRP hay brings caution flags. Hay and Forage Grower: eHay Weekly. September 25.
- Buse, K. 2018. Buy hay the smart way. Hay and Forage Grower: eHay Weekly. September 18.
- Buse, K. 2018. Windrow grazing reduces feeding costs. Hay and Forage Grower: eHay Weekly. September 11.
- Buse, K. 2018. Don't miss this fescue opportunity. Hay and Forage Grower: eHay Weekly. September 4.
- Buse, K. 2018. Baled stover offers a winter-feed solution. Hay and Forage Grower: eHay Weekly. August 28.
- Buse, K. 2018. Combination mixtures boost forage yield. Hay and Forage Grower: eHay Weekly. August 14.
- Buse, K. 2018. Besting a trampled situation. Hay and Forage Grower: eHay Weekly. August 14.
- Buse, K. 2018. Widen margins with alfalfa protein. Hay and Forage Grower: eHay Weekly. August 7.
- Buse, K. 2018. Don't let money evaporate away. Hay and Forage Grower: eHay Weekly. August 7.
- Buse, K. 2018. Every hay grower's nightmare. Hay and Forage Grower: eHay Weekly. July 31.
- Buse, K. 2018. Don't let bale losses stack up. Hay and Forage Grower: eHay Weekly. July 31.
- Buse, K. 2018. Minimize hay storage losses. Hay and Forage Grower: eHay Weekly. July 24.
- Buse, K. 2018. Preserve silage quality at all stages. Hay and Forage Grower: eHay Weekly. July 24.
- Buse, K. 2018. Get a summer annual BMR boost. Hay and Forage Grower: eHay Weekly. July 17.
- Buse, K. 2018. Finish beef with corn silage. Hay and Forage Grower: eHay Weekly. July 17.
- Buse, K. 2018. Is a longer chop better? Hay and Forage Grower: eHay Weekly. July 10.
- Buse, K. 2018. Dealing with flooded forages. Hay and Forage Grower: eHay Weekly. July 10.
- Buse, K. 2018. Tall fescue is toxic for mare pregnancies. Hay and Forage Grower: eHay Weekly. July 3.
- Buse, K. 2018. Think forage after wheat. Hay and Forage Grower: eHay Weekly. July 3.
- Buse, K. 2018. Fast drying preserves quality. Hay and Forage Grower: eHay Weekly. June 26.
- Buse, K. 2018. Lose less in bad years. Hay and Forage Grower: eHay Weekly. June 26.
- Buse, K. 2018. Getting the most out of alfalfa grass. Hay and Forage Grower: eHay Weekly. June 19.
- Buse, K. 2018. Control options exist for multiflora rose. Hay and Forage Grower: eHay Weekly. June 19.
- Buse, K. 2018. Think summer annuals now. Hay and Forage Grower: eHay Weekly. June 12.
- Buse, K. 2018. To bloom or not bloom? Hay and Forage Grower: eHay Weekly. June 12.
- Buse, K. 2018. Supplementing short pastures. Hay and Forage Grower: eHay Weekly. June 5.
- Buse, K. 2018. Get after grasses before heading. Hay and Forage Grower: eHay Weekly. June 5.
- Buse, K. 2018. Down and dirty with cutting height. Hay and Forage Grower: eHay Weekly. May 29.
- Buse, K. 2018. Silage: density equals dollars saved. Hay and Forage Grower: eHay Weekly. May 29.
- Buse, K. 2018. New grass can kill pregnancies. Hay and Forage Grower: eHay Weekly. May 22.
- Buse, K. 2018. Alfalfa also keys your grass harvest. Hay and Forage Grower: eHay Weekly. May 22.

Popular Press Articles

- Buse, K., P. Kononoff. 2020. There's more than one way to quantify rumen undegraded protein digestibility. *Hoard's Dairyman*. *Pending Publication*
- Buse, K. 2019. A Different Kind of Champion. *Hoard's Dairyman*. Expo Supplement. September 10, 2019.
- Buse, K. 2019. A Different Kind of Champion. *Hay and Forage Grower Magazine*. September 2019.
- Buse, K. 2019. The Hay Lady in Pennsylvania. *Hay and Forage Grower Magazine*. March 2019.
- Buse, K. 2019. They think out of the box. *Hay and Forage Grower Magazine*. February 2019.
- Buse, K. 2018. Making reduced-lignin work. *Hay and Forage Grower Magazine*. November 2018.
- Buse, K. 2018. They managed through the drought. *Hay and Forage Grower Magazine*. November 2018.
- Buse, K. 2018. New grass can kill pregnancies. *Hay and Forage Grower Magazine*. August/September 2018.
- Buse, K. 2018. Family, farm, and forage. *Hay and Forage Grower Magazine*. August/September 2018.
- Buse, K. 2018. Ayrshire. *Hoard's Dairyman*. July 2018.

HONORS

Iowa State University Dairy Challenge Team– National First Place Team(2018)
Iowa State University Dairy Science Al Hagen Leadership Award(2018)
Iowa State University Dairy Science Outstanding Senior Award(2018)
Iowa State University Academic Success Scholarship(2014–2017)

ACTIVITIES AND AFFILIATIONS

American Dairy Science Association– Graduate Student Division(2018–Present)
National Dairy Shrine(2018–Present)
American Dairy Science Association- Student Affiliation Division(2014–2018)