

Kyle J. Vander Pol, Ph.D.

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EDUCATION

Doctor of Philosophy, May, 2006

University of Nebraska, Lincoln, NE
Major: Animal Science
Advisors: Drs. Terry Klopfenstein and Galen Erickson

Master of Science, May, 2003

University of Nebraska, Lincoln, NE
Major: Animal Science
Advisor: Dr. Terry Klopfenstein

Bachelor of Science, May, 2000

Iowa State University, Ames, IA
Major: Animal Science
Advisor: Dr. Stephen Ford

EXPERIENCE

Research Coordinator, May 2003 to Present

University of Nebraska-Lincoln

Dr. Terry Klopfenstein, Professor; Ruminant Nutrition

Responsible for all data collection and statistical analysis of research conducted at research facility. Supervise graduate and undergraduate student data collection procedures. Responsible for marketing all finished cattle, as well as procurement of all calves in fall. Responsible for processing all cattle upon arrival as well as cattle requiring further processing while on trial. Assisted in protocol development for each trial conducted at research facility. Responsible for all diet and supplement formulations for all research stations within the University of Nebraska. Responsible for ~\$4,000,000 feedlot revolving account.

Graduate Research Assistant, January 2001 to Present

University of Nebraska-Lincoln

Dr. Terry Klopfenstein, Professor, and Dr. Galen Erickson, Assistant Professor

Conducting research dealing with feedlot production, specifically dry milling byproduct utilization in finishing diets.

- GMO corn hybrid testing.
- Near infrared reflectance spectroscopy used for starch prediction.
- Determining if additional fat in wet and dry distillers grains plus solubles is responsible for the higher energy value of distillers byproducts relative to corn.
- Determining optimum dietary inclusion of wet distillers grains plus solubles.
- Evaluated the economics of feeding wet distillers grains plus solubles.
- Determined optimum corn processing method in diets containing wet distillers grains plus solubles.
- Determined the differences in fatty acid profile of duodenal digesta of diets containing wet distillers grains plus solubles and supplemental corn oil.

Feedlot Management Specialization Internship, June 2000 to December 2000

Hi-Gain Feedlot Inc., Cozad, NE

Mr. Jeff Rudolph, Managing Partner

Assisted with all aspects of animal health and processing. Managed feedmill while regular manager recovered from surgery, experience conditioning, flaking, and rolling corn. Assisted in feed department; calling feed, managing loads, priority feeding, met and discussed with nutritionist. Assisted Mr. Rudolph in developing weekly show lists.

Undergraduate Research Assistant, Fall 1997 to Spring 2000

Iowa State University, Ames, IA

Dr. James Russell, Ruminant Nutrition Laboratory

Conducted a three year winter grazing experiment where I was responsible for all data collection and subsequent forage analysis. Assisted graduate students in data collection and laboratory analysis procedures.

Beef Production Internship, May 1999 to August 1999

Wye Angus Research Station, Queenstown, MD

Dr. Scott Barao and Mr. Edward Draper, Director and Manager

Assisted in managing an intensive warm season grazing system. Formulated diets for bull test. Assisted in blood collection procedures for various graduate student endocrinology based research. Assisted in forage harvest. Assisted in heat checking and artificial insemination procedures during the breeding season. Regular day to day and weekend checking and feeding responsibilities.

Special Skills: Rumen cannulation surgery, use of specialized laboratory instrumentation (HPLC, GC, Spectrophotometer, NIRS, PCR, Nitrogen analyzer, and various other molecular based research equipment).

MEMBERSHIPS

Professional

American Registry of Professional Animal Scientists
American Society of Animal Science
Plains Nutrition Council

Other

2000 Iowa State University Meat Animal Evaluation Team
Alpha Zeta Honorary Fraternity
Messiah Lutheran Church
Pi Kappa Phi National Fraternity
Prairie Bowmen Archery Club
PUSH America Charitable Organization

SCHOLARSHIPS AND HONORS

1998 Stephen Covey Leadership Seminar
2002 Featured Alum, Pi Kappa Phi National Alumni Publication, *Almicron*
Eldred R. Harmon Excellence in Agriculture Scholarship, *Recipient, 1998*
Kelly Bergstrom Leadership Scholarship, *Recipient, 1999*
Whitmore Student Research Award, *Recipient, 2002*

PUBLICATIONS

Refereed Journal Articles

Vander Pol, K.J., G.E. Erickson, N.D. Robbins, L.L. Berger, C.B. Wilson, T.J. Klopfenstein, E.P. Stanisiewski, and G.F. Hartnell. 2005. Effect of grazing residues or feeding corn from a corn rootworm protected hybrid (MON 863) compared with reference hybrids on animal performance and carcass characteristics. *J. Anim. Sci.* 83:2826-2834.

Vander Pol, K.J., G.E. Erickson, T.J. Klopfenstein, and M.A. Greenquist. 2006. Effect of level of wet distillers grains on feedlot performance of finishing cattle and energy value relative to corn. American Registry of Professional Animal Scientists, submitted.

Jenschke, B.E., J.M. James, **K.J. Vander Pol**, T.J. Klopfenstein, and C.R. Calkins. 2006. Feeding wet distillers grains to feedlot cattle does not increase livery flavor in meat. *J. Anim. Sci.* submitted.

Invited Papers/Proceedings

Erickson, G.E., T.J. Klopfenstein, **K. Vander Pol**, V. Bremer, and P. Loza. 2005. Feeding of wet corn milling byproducts to beef cattle. Proc. Minnesota Nutrition Conf., St. Paul, MN.

Jenschke, B.E., J.M. James, **K.J. Vander Pol**, C.R. Calkins, and T.J. Klopfenstein. 2005. Wet distillers grains plus solubles do not increase liver-like off-flavors in cooked beef. Proc. 51st Int. Congress of Meat Science and Tech. Baltimore, MD.

American Society of Animal Science Abstracts

Vander Pol, K.J., M.K. Luebbe, G.I. Crawford, G.E. Erickson, and T.J. Klopfenstein. 2006. Characteristics of fatty acid digestion in finishing diets containing wet distillers grains, a composite, or supplemental corn oil. *J. Anim. Sci.* Accepted.

Vander Pol, K.J., M.A. Greenquist, G.E. Erickson, T.J. Klopfenstein, and T. Robb. 2006. Effect of corn processing in finishing diets containing wet distillers grains on feedlot performance and carcass characteristics of finishing steers. *J. Anim. Sci.* Accepted.

Loza, P.L., G.E. Erickson, **K.J. Vander Pol**, M.A. Greenquist, R. A. Stock, and T.J. Klopfenstein. 2006. Addition of wet distillers grains plus solubles in cattle finishing diets containing wet corn gluten feed. *J. Anim. Sci.* Accepted.

Buckner, C.D., G.E. Erickson, T.J. Klopfenstein, R.A. Stock, and **K.J. Vander Pol**. 2006. Effect of feeding a byproduct combination at two levels or byproduct alone in feedlot diets. *J. Anim. Sci.* Accepted.

Quinn, S., G. Erickson, T. Klopfenstein, R. Stowell, **K. Vander Pol**, and D. Sherwood. 2006. Effect of phase feeding protein on cattle performance and nitrogen mass balance. *J. Anim. Sci.* Accepted.

Crawford, G.I., **K.J. Vander Pol**, J.C. MacDonald, G.E. Erickson, and T.J. Klopfenstein. 2006. Diurnal and dietary impacts on purine derivative excretion from spot samples of urine in finishing heifers. *J. Anim. Sci.* Accepted.

Van Koevinger, M.T., M.A. Greenquist, **K.J. Vander Pol**, G.E. Erickson, T.J. Klopfenstein, and W.J. Platter. 2006. Growth performance profile and carcass characteristics of steers fed Optaflexx. *J. Anim. Sci.* Accepted.

Crawford, G.I., G.E. Erickson, **K.J. Vander Pol**, M.A. Greenquist, J.D. Folmer, and M.T. Van Koevinger. 2006. Effect of Optaflexx dosage and duration of feeding prior to slaughter on growth performance and carcass characteristics. *J. Anim. Sci.* Accepted.

Greenquist, M., **K. Vander Pol**, G. Erickson, T. Klopfenstein, and M. Van Koevinger. 2006. Effects of feeding duration on growth performance and carcass characteristics of feedlot steers. *J. Anim. Sci.* Accepted.

- Bremer, V.R., G.E. Erickson, T.J. Klopfenstein, M. L. Gibson, **K. J. Vander Pol**, and M.A. Greenquist. 2005. Feedlot performance of a new distillers byproduct (Dakota Bran) for finishing cattle. *J. Anim. Sci.* 83(Suppl.2):215.
- Vander Pol, K.**, G. Erickson, T. Klopfenstein, and M. Greenquist. 2005. Effect of level of wet distillers grains on feedlot performance of finishing cattle and energy value relative to corn. *J. Anim. Sci.* 83(Suppl. 2):103
- Vander Pol, K.**, G. Erickson, and T. Klopfenstein. 2005. Degradable intake protein in finishing diets containing dried distiller's grains. *J. Anim. Sci.* 83(Suppl. 2):251
- Vander Pol, K.**, G. Erickson, and T. Klopfenstein. 2005. Economics of wet distillers grains use in feedlot diets. *J. Anim. Sci.* 83(Suppl. 2):271
- Benton, J.R., C.N. Macken, **K.J. Vander Pol**, G.E. Erickson, and T.J. Klopfenstein. 2004. Effect of corn moisture of ensiled early-harvested and reconstituted field-dried corn and degradable intake protein concentration on finishing cattle performance. *J. Anim. Sci.* 82(Suppl. 2):289
- Loza, P.L., **K.J. Vander Pol**, G.E. Erickson, R.A. Stock, and T.J. Klopfenstein. 2004. Corn milling byproducts and alfalfa levels in cattle finishing diets. *J. Anim. Sci.* 82(Suppl. 1):329
- Loza, P.L., **K.J. Vander Pol**, G.E. Erickson, R.A. Stock, and T.J. Klopfenstein. 2004. Effects of forage level and corn processing method in beef finishing diets containing wet corn gluten feed on finishing steer performance. *J. Anim. Sci.* 82(Suppl. 1):332
- Sayer, K.M., G.E. Erickson, T.J. Klopfenstein, C.N. Macken, and **K.J. Vander Pol**. 2004. Effect of corn bran and steep inclusion in finishing diets on performance and nitrogen balance of open dirt feedlots. *J. Anim. Sci.* 82(Suppl. 1):330
- Vander Pol, K.J.**, G.E. Erickson, T.J. Klopfenstein, and C.N. Macken. 2003. Effect of wet distillers grains plus solubles and corn oil level on finishing heifer performance. *J. Anim. Sci.* 81(Suppl. 2):346
- Simon, J.J., **K.J. Vander Pol**, G.E. Erickson, T.J. Klopfenstein, C.N. Macken, E.P. Stanisiewski, and G.F. Hartnell. 2002. Effect of Roundup Ready[®] corn (event NK603) on performance in beef feedlot diets. 2002. *J. Anim. Sci.* 80(Suppl. 1):179
- Vander Pol, K.J.**, G.E. Erickson, C.N. Macken, M.P. Blackford, T.J. Klopfenstein, E.P. Stanisiewski, and G.F. Hartnell. 2002. Effect of corn root worm protected corn (event MON863) on performance in beef feedlot diets. *J. Anim. Sci.* 80 (Suppl. 1):180
- Whittet, K.M., K.W. Creighton, **K.J. Vander Pol**, G.E. Erickson, and T.J. Klopfenstein. 2002. Influence of rinsing technique and sample size on *in situ* protein degradation of protein sources. *J. Anim. Sci.* 80(Suppl. 1):1610
- Vander Pol, K.J.**, and J.R. Russell. 2000. The value of legume forage species for stockpiled grazing by calves. *J. Anim. Sci.* 78(Suppl. 2):303

Experiment Station Reports, Nebraska Beef Reports

- Vander Pol, K.J.**, G.E. Erickson, T.J. Klopfenstein, and D.R. Mark. 2006. Economic optimum use of wet distillers grains in feedlots. *Nebr. Beef Cattle Rep.* MP 88-A:54-56.
- Vander Pol, K.J.**, G.E. Erickson, T.J. Klopfenstein, M.A. Greenquist, and T. Robb. 2006. Effect of dietary inclusion of wet distillers grains on feedlot performance of finishing cattle and energy value relative to corn. *Nebr. Beef Cattle Rep.* MP 88-A:51-53.
- Vander Pol, K.J.**, G.E. Erickson, M.A. Greenquist, T.J. Klopfenstein, and T. Robb. 2006. Effect of corn processing in finishing diets containing wet distillers grains on feedlot performance and carcass characteristics of finishing steers. *Nebr. Beef Cattle Rep.* MP 88-A:48-50.

- Gustad, K.H., T.J. Klopfenstein, G.E. Erickson, **K.J. Vander Pol**, J.C. MacDonald, and M.A. Greenquist. 2006. Dried distillers grains supplementation of calves grazing corn residue. *Nebr. Beef Cattle Rep.* MP 88-A:36-37.
- Bremer, V.R., G.E. Erickson, T.J. Klopfenstein, M.L. Gibson, **K.J. Vander Pol**, and M.A. Greenquist. 2006. Evaluation of a low protein distillers by-product for finishing cattle. *Nebr. Beef Cattle Rep.* MP 88-A:57-58.
- Crawford, G.I., G.E. Erickson, **K.J. Vander Pol**, M.A. Greenquist, J.D. Folmer, and M.T. Van Koeving. 2006. Effect of Optaflexx dosage and duration of feeding prior to slaughter on feed conversion and carcass characteristics. *Nebr. Beef Cattle Rep.* MP 88-A:72-74.
- Jenschke, B.E., J.M. James, **K.J. Vander Pol**, C.R. Calkins, and T.J. Klopfenstein. 2006. Wet distillers grains plus solubles do not increase liver-like off flavors in cooked beef. *Nebr. Beef Cattle Rep.* MP 88-A:115-117.
- Morris, S.E., T.J. Klopfenstein, D.C. Adams, G.E. Erickson, and **K.J. Vander Pol**. 2005. The effects of dried distillers grains on heifers consuming low or high quality forage. *Nebr. Beef Cattle Rep.* MP 83-A:18-20.
- Benton, J.R., G.E. Erickson, T.J. Klopfenstein, C.N. Macken, and **K.J. Vander Pol**. 2005. Effects of corn moisture and degradable intake protein concentration on finishing cattle performance. *Nebr. Beef Cattle Rep.* MP 83-A:28-30.
- Loza, P.L., **K.J. Vander Pol**, G.E. Erickson, T.J. Klopfenstein, and R.A. Stock. 2005. Effect of different corn processing methods and roughage levels in feedlot diets containing wet corn gluten feed. *Nebr. Beef Cattle Rep.* MP 83-A:37-38.
- Vander Pol, K.J.**, G.E. Erickson, and T.J. Klopfenstein. 2005. Degradable intake protein in finishing diets containing dried distillers grains. *Nebr. Beef Cattle Rep.* MP 83-A:42-44.
- Loza, P.L., **K.J. Vander Pol**, G.E. Erickson, T.J. Klopfenstein, and R.A. Stock. 2005. Effect of feeding a by-product combination consisting of wet distillers grains and wet corn gluten feed to feedlot cattle. *Nebr. Beef Cattle Rep.* MP 83-A:45-46.
- Sayer, K.M., G.E. Erickson, T.J. Klopfenstein, **K.J. Vander Pol**, and C.N. Macken. 2005. Effects of corn bran and corn steep inclusion in finishing diets on cattle performance and nitrogen mass balance. *Nebr. Beef Cattle Rep.* MP 83-A:54-56.
- Vander Pol, K.J.**, G.E. Erickson, T.J. Klopfenstein, and C.N. Macken. 2004. Effect of wet and dry distillers grains plus solubles and supplemental fat level on performance of yearling finishing cattle. *Nebr. Beef Cattle Rep.* MP 80-A:45-48.
- Whittet, K., K. Creighton, **K. Vander Pol**, G. Erickson, and T. Klopfenstein. 2003. Influence of rinsing technique and sample size on *in situ* protein degradation. *Nebr. Beef Cattle Rep.* MP 80-A:86-88.
- Vander Pol, K.**, J. Simon, G. Erickson, T. Klopfenstein, E. Stanisiewski, and G. Hartnell. 2003. Feeding transgenic (*Bt* corn rootworm protected and roundup-ready[®]) corn to feedlot cattle. *Nebr. Beef Cattle Rep.* MP 80-A:30-32.
- Vander Pol, K.**, G. Erickson, R. Mass, and T. Klopfenstein. 2002. Effect of fiber level in finishing diets on diet digestibility and corn silage impact on bacterial crude protein production. *Nebr. Beef Cattle Rep.* MP 79-A:66-68.