

EUGENE E. D. FELTON

West Virginia University • Davis College of Agriculture, Natural Resources and Design • Division of Animal and Nutritional Sciences • PO Box 6108 • Morgantown, WV 26506 • 304-293-1879 • eefelton@wvu.edu

CURRENT EMPLOYMENT

ASSOCIATE PROFESSOR <i>West Virginia University</i> Teaching (50%): Research (50%)	YEARS EMPLOYED (EX: 2003 -) <i>Morgantown, West Virginia</i>
PRIMARY TEACHING- ANNU 260 – Animal Nutrition ANNU 361 – Applied Nutrition: Herbivores ANNU 393 – Applied Nutritional Lab AVS 451 – Current Literature ANNU 498 – Honors add on for ANNU 260 ANNU 602 – Nutritional Fxn. & Physiology ANNU 794/696 – Current Issues in Nutrition	GUEST LECTURES- A&VS 105 – Professional Orientation A&VS 251 – Principles of Animal Science ANPR 341 – Beef Production
TEAM TEACHING- AGBI 512 – Agricultural Biochemistry (2003-05) ANNU 794/696 – Current Issues in Nutrition AVS 293E/411 – Dairy Heifer Management AVS 493C – Food Animal Disease ANNU 691 – Special Topics	SUMMER TEACHING- A&VS 402 – Values and Ethics
PRIMARY RESEARCH- Forage Systems Ruminant Production Efficiency Feedstuff Assessment	COLLABORATIVE RESEARCH- Biomass and Bioenergy generation Organic production

EDUCATION

POST DOCTORATE Pasture Systems <i>West Virginia University</i>	YEARS ATTENDED (EX: 2002-2003) <i>Morgantown, West Virginia</i>
DOCTOR OF PHILOSOPHY Ruminant Nutrition <i>University of Missouri</i>	YEARS ATTENDED (EX: 1995-2002) <i>Columbia, Missouri</i>
Dissertation: Soybeans as a protein and fat source for cattle.	
BACHELOR OF SCIENCE Animal Science <i>The Ohio State University</i>	YEARS ATTENDED (EX: 1991-1995) <i>Columbus, Ohio</i>

AWARDS/PROFESSIONAL and NON-PROFESSIONAL SERVICE

UG academic advisor (2003-present) summer student orientation (2005,2011-16)
Midwest Sect. Ruminant Co-chair/chair American Society of Animal Science (2006,2007)
College Library Committee (2003 – 2005)
College graduate paper/poster competition judge (2003, 2004, 2006, 2007)
Divisional farm planning committee (2003-2006)
Divisional Courses & Curriculum committee (2003 – 2006, 2011)
Master of Science curriculum evaluation program preparation for submission (2006)
College Courses & Curriculum committee (2011-2012)
Chair Ruminant Nutrition/Forage livestock programs for Divisional CSREES review
Potomac State College consultation on feeding their dairy herd (2003)
Nutrition of Animals in the WV Young Sire Evaluation Programs (2003-present)
Feed Efficiency data collection for WV Young Sire Evaluation Programs (2003-present)
Producer, Extension, Industry and 4H club nutritional consultation (2003-present)
Divisional promotion and tenure committee
Chair, Nutrition Faculty Search committee (Krause)
Faculty Search Committee (Plant Science Agronomist committee-2 postings)
Divisional committee chair on Graduate stipends, 2004
Divisional Farm, Beef and Dairy Species committees (2006-present)
Grounds Committee Chair- Northern West Virginia Beagle Club (2010-2015)
President – Northern West Virginia Beagle Club (American Kennel Club Sanctioned member Club 2005-2014)
Member of Northern West Virginia Beagle Club (2003-Present)
Reviewer-American Society of Animal Science (2004-present)
Reviewer-American Society of Dairy Science (2006-present)
Member of West Virginia Cattlemen’s Association (2004-present)
Member of Missouri Cattlemen’s Association (1996-1998)
American Society of Animal Science, 1995-present
Boone County Young Farmers (1999 & 2000)

Invited Speaker. (2015) Maryland Cattle Industry Convention & Hay and Pasture Conference. Hagerstown, MD. Presented *“Understanding the Role of Feed Intake and Feed Efficiency in System Profitability and Managing Feed Intake and Feed Efficiency in a Grazing System.”*

Invited Speaker. (2013) Southern States Beef FeedMaster Program. Knoxville, TN. Presented *“New Thoughts on Feed Efficiency”*

Invited Speaker. (2012) WVU Reedsville Experiment Station Field Day. Reedsville, WV. Co-Presented *“Research finding of the Pasture Based Beef Systems Project.”*

Invited Judge. (2012) Mid-American Brace National All Age 15” Bitch Class. March, Henryville Indiana.

Invited Speaker. (2011) Small Ruminant Short Course. Morgantown, WV. Co-Presented *“Feed and Nutrition, Managing the costs.”*

Invited Speaker. (2011) Wood County Farmer's Short Course. Parkersburg, WV. Presented "*Utilizing By-products to Reduce Feed Costs on the Farm.*"

Invited Speaker. (2010) Southern States Beef FeedMaster Program. Lexington, KY. Presented "*Residual Feed Intake: Genetic Differences, Etc...*"

Invited Speaker. (2009) National Cattlemen's Beef Association vendors seminar :Co-presented a lecture "*Summary of RFI Research*".

Invited Speaker. (2009) Appalachian Grazing Conference held at WVU Stewartstown Farm: "*Stocking Rate and Supplementation effects on Pasture Finished Steers*" and Appalachian Grazing Conference held at Lakeview Resort "*Effects of RFI Selection:Performance on Grass*".

Invited Speaker. (2009) Bi-annual Virginia Tech Shenandoah Valley Agricultural Research and Extension Center Field Day. "*Using Residual Feed Intake (RFI) to predict Animal Performance*".

Invited Speaker – (2008) 3rd Annual University of Missouri Beef Research and Teaching Farm Field Day. *Effects of residual feed intake selection: from conception to slaughter.*

American Kennel Club Certified Beagle Field Trial and Hunting Test Judge (#73086) Gundog Brace, Small Pack, Small Pack Option and Two Couple Pack (2007-present).

Invited Speaker-(2007) West Virginia Cattlemen's Association annual convention. *Research update: West Virginia feed efficiency project.*

Invited Speaker-(2006) West Virginia Cattlemen's Association annual convention. *Using residual feed intake as a selection tool.*

Invited Speaker-(2005) 5th annual UW Lancaster Agricultural Research Station Field Day. *Animal and grazing management considerations in pasture finishing.*

Animal and Nutritional Sciences selection for outstanding teaching in the Davis College of Agriculture, Forestry and Consumer Science (2005)

Invited Speaker – (2003) New York City Watershed Agricultural Programs workshop on alternative farming practices. Andes, NY. *Pasture Finished Beef.*

Gamma Sigma Delta Honorary Agricultural Society member (2003 induction)

Graduate Development Committee-University of Missouri: Animal Science Graduate Student Association (1997-1999)

PUBLICATIONS

PEER-REVIEWED JOURNAL ARTICLES

Atta-Obeng, E., B Dawson-Andoh, E. Felton and G. Dahle. 2018. Carbon dioxide capture using amine functionalized hydrothermal carbons from technical lignin. Waste and Biomass Valorization. <https://doi.org/10.1007/s12649-018-0281-2>

- Mata-Padrino, D., E. Felton, W. Bryan and D. Belesky. 2017. Winter grazing in a grass-fed system: Effect of stocking density and sequential use of autumn-stockpiled grassland on performance of yearling steers. *International Journal of Agronomy*. Volume 2017, Article ID 2375954, 9 pages <https://doi.org/10.1155/2017/2375954>
- Lewis, S.E., D. D. Moran, P. Turk, E. K. Inskeep, and E. Felton. 2017. Relationship of weight to heart girth and age in young alpaca cria. *WVU Experiment Station Bulletin #731*.
- Mata-Padrino*, D., E. Felton* and W. Bryan. 2015. Winter management of yearling steers in a grass-fed beef production system. *Agronomy Journal*. 107(3):1-7.
- Neel*, J.P.S., E.E.D. Felton*, S. Singh, A. J. Sexton, and D.P. Belesky. 2015. Open pasture, mature hardwood silvopasture, and herbage maturity on nutritive value and fermentation characteristics of cool-season pasture. *Grass and Forage Science*. 71, issue 2, June 2016, first published online April 2015.
- K. S. Shaffer, P. Turk, W. R. Wagner, and E. E. D. Felton. Residual feed intake, body composition, and fertility in yearling beef heifers. *J ANIM SCI* 2011, 89:1028-1034.
- Odhiambo, J.F., J.D. Rhinehart, R. Helmondoller, J. Y. Pritchard, P.I. Osborne, E.E. Felton, and R.A. Daily,. 2009. Effect of weaning regime on energy profiles and reproductive performance of beef cows. *J ANIM SCI* 87:2428-2436.
- Neel JP, Fontenot JP, Clapham WM, Duckett SK, Felton EE, Scaglia G, Bryan WB. 2007. Effects of winter stocker growth rate and finishing system on: I. Animal performance and carcass characteristics. *J. Animal Sci*. 85:2012-2018.
- Buchanan, N.P., L.B. Kimbler, A.S. Parsons, G.E. Seidel, W.B. Bryan, E.E.D. Felton, and J.S. Moritz. 2007. The effect of non-starch polysaccharide enzyme addition and dietary energy restriction on performance and carcass quality of organic broiler chickens. *J. Applied Pout. Research*. 16:1-12.
- Felton, E.E.D. and M.S. Kerley. 2004. Performance and carcass quality of steers fed whole raw soybeans at increasing inclusion levels. *J. Animal Sci*. 82:725-732.
- Felton, E.E.D. and M.S. Kerley. 2004. Performance and carcass quality of steers fed different sources of dietary fat. *J. Animal Sci*. 82(6):1794-1805.
- Fu, C.J., J. Porter, J.W. Lehmkuhler, E.E.D. Felton, D. Schmidt, M. Huck, and M.S. Kerley. 2003. Pre-harvest factors influencing the acid resistance of *Escherichia coli* and O157:H7. *J. Animal Sci*. 81:1080-1087.
- Fu, C.J., E.E.D. Felton, J.W. Lehmkuhler, and M.S. Kerley. 2001. Ruminal peptide concentration required to optimize microbial growth and efficiency. *J. Anim. Sci*. 79:1305-1312.
- Lehmkuhler, J.W., E.E.D. Felton, D.A. Schmidt, K.J. Bader, H.E. Garrett and M.S. Kerley. 2003. Tree protection methods during the silvopastoral-system establishment in Midwestern USA: Cattle performance and tree damage. *Agroforestry Systems* 59: 35-42.

POPULAR PRESS

- “West Virginia: A leader in measuring efficiency of animals” Article showcasing findings from feed efficiency work at WVU. WVU. February 12th, 2009. *WVU Spirit*.
- “Residual feed intake studies improve herd profits” Article showcasing finding from feed efficiency work at WVU. October 14th, 2008. *Delta Farm Press*.
- “Feed efficiency relates to profitability” Article showcasing finding from feed efficiency work at WVU. October 7th, 2008. *Southern Livestock Journal*.

“Selecting for calves that cost less to feed” Article showcasing finding from feed efficiency work at WVU. October 2nd, 2008. *Missouri Farmer Today*.

“Residual Feed Intake Improve herd Efficiency” Article showcasing finding from feed efficiency work at WVU. October 1st, 2008. *thecattlesite.com*.

“Residual feed intake studies can improve herd efficiency, profits” Article showcasing finding from feed efficiency work at WVU. September 24th, 2008. *University of Missouri Extension*.

“WVU studying new feed technology” Article showcasing feed efficiency work at WVU. May 19, 2005. *Farm & Dairy*.

Felton, E.E.D. and M.S. Kerley. Source of Dietary Fat can alter beef carcass fatty acid composition. Invited paper. Feed info Source. January 2005.

“Measuring Up” Article published in the November 2004 issue of the *Angus Journal* pertaining to feed efficiency work

“WVU animal scientists using cutting-edge feed technology” Article by David Welsh showcasing feed efficiency work at WVU. April 22, 2004. *The Mountaineer Spirit*.

“Whole soybeans work fine in steer rations” Radio interview Iowa Farm Report-News from the Midwest Sectional Meetings, March 16-18, 1998, Des Moines, Iowa.

ABSTRACTS

C. Maierle, E.E. Felton, S.P. Greiner, S.A. Bowdridge. 2018. Effect of terminal sire breed on feed efficiency in Katahdin crossbred feedlot-finished lambs. To be presented at Southern Section of ASAS. February, 2018.

J.N. Kidrick, E.E. Felton, K.S. Shaffer, and K.M. Barnes. 2016. Relationship between antioxidants and residual feed intake in grazing heifers. Presented at Annual meeting of ASAS. Salt Lake City, Utah. July, 2016.

Harrison, T., E.E. Felton. Relationship of plasma osmolarity to feed efficiency in beef cattle. presented at Southern Section of ASAS. February, 2016.

Harrison, T., E.E. Felton. Effect of Fly Control and Aureomycin in a free Choice Mineral on Performance of Pastured Stocker Cattle. presented at Southern Section of ASAS. February, 2015.

Mata-Padrino, D., Eugenia M. Pena-Yewtukhiw, William B. Bryan and Gene Felton. Effect of winter grazing management strategies on average daily gain of yearling steers. Presented at ASA, CSSA, & SSSA International Annual Meeting 11/4/2014.

Baptiste, Q., E. Nestor, S. Chavez, S. Rastle-Simson, K. D’Souza, A. Redhead, M. Knights & E. E. D. Felton. Delayed feeding of fat enriched protein supplement alleviates postprandial suppression of invitro rumen metabolism. Presented at ADSA-ASAS Joint annual meeting. Indianapolis, IN July 8 -12th, 2013.

J.P.S. Neel, E.E.D. Felton, S.K. Duckett and W.S. Swecker. Relationship between residual feed intake and performance and carcass parameters of pasture finished cattle. Presented at the National Animal Sciences Meeting, New Orleans, July 10-14th, 2011.

Baptiste, Q., J. Gulas, M. Packard, S. Chavez, E. Nestor, D. Matapadrino & E. E. D. Felton. Effects of delayed supplementation with fat enriched protein supplement on growth performance and tissue fatty acid composition of high forage fed lambs. To be presented at Midwestern sectional meetings of the American Society of Animal Science. March 2009.

Baptiste, Q., J. Gulas, M. Packard, E. Nestor & E. E. D. Felton. 2008. Effects of time of soybean oil supplementation on diurnal rumen activity and total tract nutrient digestibility in lambs fed a high forage diet. *J. Animal Sci.* Vol 86. (supp. 1):237.

- Chavez, S., Q. Baptiste & E. E. D. Felton. 2008. Relationships between feeding behaviors Boer bucks. *J. Animal Sci.* Vol 86. (supp. 1):7.
- Odhiambo, J.F., E. E. Felton, R. Helmondollar, J. Y. Pritchard, P. I. Osborne, and R. A. Dailey. Development of a model for noninvasive evaluation of energy profiles in beef cows. *J. Anim. Sci.* Vol 85. (Supp. 1):294.
- Odhiambo, J.F., E.E. Felton, R.A. Dailey, and P.I. Osborne. 2006 Evaluation of forage-based weaning systems in spring-born cross-bred beef calves. *J. Anim. Sci.* Vol 84. (Supp. 1):151.
- Gulas, J., J. Warren and E.E.D. Felton. 2006. Effects of different selection criteria on profitability in beef bulls. *J. Anim. Sci.* Vol. 84. (supp. 2):222.
- Felton, E.E. D. and J.E. Warren. Age, body condition, and calf sex effects on maternal conversion and circulating NEFA levels. 2005. *J. Anim. Sci.* Vol. 83. (supp. 1):188.
- Felton, E.E.D., J.E. Warren, Jr., W.R. Wagner and J.W. Yates. 2004 Feed efficiency in the West Virginia Bull Test Evaluation Program. *J. Anim. Sci.* Vol. 82. (supp. 1):18.
- Felton, E.E.D., T. Romanczak, and W. Bryan. 2004. Stocking rate and supplementation effects on pasture finished steers. *J. Anim. Sci.* Vol. 82. (supp. 2):292.
- Felton, E.E.D. and M.S. Kerley. 2001. Intake characteristics of beef steers consuming hay ad libitum. *J. Anim. Sci.* 79(supp. 1):235.
- Felton, E.E.D., C.L. Lorenzen, C.A. Stahl, M.S. Kerley S.D. Soderlund, and F.N. Owens. 2001. Dietary fat source alters beef carcass tocopherol and fatty acid profiles. *J. Anim. Sci.* 79(supp. 2):58.
- Felton, E.E.D., C.L. Lorenzen, M.S. Kerley S.D. Soderlund, and F.N. Owens. 2000. Effects of feeding fat and normal vs. high oleic acid soybeans on feedlot steer performance and carcass characteristics. *J. Anim. Sci.* 78(supp. 1):1071.
- Felton, E.E.D. and M.S. Kerley. 2000. Effects of feeding whole soybeans on feedlot steer performance and carcass characteristics. *J. Anim. Sci.* 78(supp. 2):280.
- Felton, E.E.D. and M.S. Kerley. 1999. Comparison of chromic oxide to chromium mordanted fiber for the estimation of ruminant fecal out-put. *J. Anim. Sci.* 77(supp. 1):371.
- Felton, E.E.D. and M.S. Kerley. 1998. Effects of feeding whole soybeans on feedlot steer performance and carcass characteristics. *J. Anim. Sci.* 76(supp. 1):186.
- Felton, E.E.D., P.A. Ludden and M.S. Kerley. 1997. Evaluation of non-digested neutral detergent fiber vs. neutral detergent fiber as predictors of forage dry matter intake of beef cows consuming either warm-season or cool-season grasses. *J. Anim. Sci.* 75(Supp. 1):253.
- Bader, J.F., E.E.D. Felton, M.S. Kerley, D.D. Simms, and D.J. Patterson. 2000. Effects of postpartum fat supplementation on reproduction in primiparous 2-year-old and mature cows. *J. Anim. Sci.* 78(supp. 1):941.
- Fu, C.J., E.E.D. Felton and M.S. Kerley. 1999. Ruminal degradable protein requirements of microbes in steers consuming concentrate-based diets. *J. Anim. Sci.* 77(supp. 1):548.
- Kerley, M.S., E.E.D. Felton, J.W. Lehmkuhler, and R. Shillito. 2001. Bt corn that is genetically modified to prevent insect damage is equal to conventional corn in feeding value for beef cattle. *J. Anim. Sci.* 79(supp. 2):98.
- Lehmkuhler, J.W., E.E.D. Felton, C.J. Fu, S. Weber, and M.S. Kerley. 2001. Response of feedlot steers to diets containing bloodmeal and choice white grease. *J. Anim. Sci.* 79(supp. 2):94.
- Lehmkuhler, J.W., E.E.D. Felton, C.J. Fu, and M.S. Kerley. 2001. Bloodmeal and fishmeal addition to receiving diets. *J. Anim. Sci.* 79(supp. 1):366.
- Lehmkuhler, J.W., E.E.D. Felton, P. Brooks, and M.S. Kerley. 1999. Amino acid: energy relationship for receiving calves. *J. Anim. Sci.* 77(supp. 1):558.

- Lehmkuhler, J.W., K. Bader, E.E.D. Felton, D.A. Schmidt, H.E. Garrett, and M.S. Kerley. 2001. Grazing during the establishment period: Methods of tree protection and impact of grazing on tree and animal performance. The seventh conference on agroforestry in North America.
- Fu, C.J., J.W. Lehmkuhler, E.E.D. Felton, J.M. Lynch, and M.S. Kerley. 1999. Crude protein requirements of ruminal bacteria. *J. Anim. Sci.* 77(supp. 1):247.
- Fu, C.J., J. Porter, J.W. Lehmkuhler, E.E.D. Felton, D. Schmidt, M. Huck, and M.S. Kerley. 2001. The effect of pH on acid resistance of cattle fecal *Escherichia coli* and O157:H7 in continuous culture or pure culture. *J. Anim. Sci.* 79(supp. 1):77.

PROCEEDINGS & REPORTS

- Bowdridge, S., E. Felton, J Yates, B. Smith and E. Nestor. 2018. Modifying Cattle Growsafe™ System for Small Ruminant Performance Evaluation Programs. Protocol development shared with Growsafe in return for continued support of current system.
- Neel, J.P.S., J.P. Fontenot, W.M. Clapham, S.K. Duckett, E.E. Felton, G. Scaglia, W.B. Bryan & P.E. Lewis. 2007. Wintering performance and how it affects carcass quality. In: Proceedings of the 1st national grass-fed beef conference. Feb. 28-March 2. Penn State University. Grantville, PA.
- Neel, J.P. S., W. M. Clapham, J.P. Fontenot and E.E.D. Felton. Winter gain on animal performance and carcass characteristics of pasture-finished steers. 2004. Proceedings of the American Forages Grasslands Council.
- Felton, E.E.D. and M.S. Kerley. 2002. Intrinsic factors affecting forage intake and digestibility: Evaluation of current and future methods of determination. 2002. Submitted: Proceedings of the Joint Midwest Section AOAC International and National Forage Testing Association Meeting and Exposition. June 10-12. Des Moines, Iowa.
- Felton, E.E.D. and M.S. Kerley. 2000. Comparison of Chromic oxide to chromium mordanted fiber for the estimation of ruminant fecal output. University of Missouri Animal Sciences Departmental Report. p. 37-40.
- Felton, E.E.D. and M.S. Kerley. 2000. Effects of feeding whole soybeans on feedlot steer performance and carcass characteristics. University of Missouri Animal Sciences Departmental Report. p. 41-45.
- Felton, E.E.D., A.J. Cox and M.S. Kerley. 1998. Value of whole soybeans for feedlot cattle. University of Missouri Animal Sciences Departmental Report. p. 21-24.
- Lehmkuhler, J.W., E.E.D. Felton, D.A. Schmidt, K.J. Bader, A. Moore, M.B. Huck, H.E. Garrett, and M.S. Kerley. Grazing during the establishment period: Methods of tree protection and impact of grazing on tree and animal performance. Proceedings of the Seventh Biennial Conference on Agroforestry in North America and Sixth Annual Conference of the Plains and Prairie Forestry Association. P. 135-143.
- Fu, C.J., J.W. Lehmkuhler, E.E.D. Felton, J. Lynch and M.S. Kerley. 1998. Crude protein requirements of ruminal bacteria. University of Missouri Animal Sciences Departmental Report. P. 120-123.