

Byron Clark Housewright, PhD
Byron.housewright@tamuc.edu

1. Academic Degrees

University of Tennessee, Knoxville, Ph.D. 1994, Ruminant Nutrition - Alterations of energy metabolism in ruminants supplemented with lasalocid.

University of Tennessee, Knoxville, M.S. 1990, Ruminant Nutrition - Byron Housewright. M.S. 1990. Portal drained viscera, hepatic and lower hindquarter net flux of nitrogen and energy metabolites in ruminants fed protein supplements containing increasing amounts of bound nitrogen and structural carbohydrates.

Texas Tech University, B.S., Animal Science

2. Professional Experience

Texas A&M University-Commerce, CASNR Interim Associate Dean and Department Head - January 2024 to Present

Texas A&M University-Commerce, CASNR Outreach Coordinator and Adjunct Faculty – August 2023 to January 2024

Frank Phillips College, Dean of Instruction, March 2021 – July 2023

Frank Phillips College, Associate Dean of Instruction, August 2018 – February 2021

Frank Phillips College, Director, Department of Agriculture, August 2015 - present

Sul Ross State University, Assistant Professor, Fall 2012 – July 2015

Tennessee Tech University, Visiting Professor, Cookeville, TN, Fall 2011 – August 2012

Nutrition Service Company, Pulaski, WI, Director of Nutrition, December 2007 – July 2011

Texas A&M University-Commerce, Assistant Professor of Animal Science, Fall 2001 to May 2008

Texas A&M University-Commerce, Ad-Interim Professor of Animal Science, Fall 2000

Northeast Texas Farmers COOP, Sulphur Springs, TX, Senior Nutritionist, August 1999 to August 2000

ConAgra Feed Company, Augusta, GA, Nutrition Services Manager, March 1998 to August 1999

Lundquist and Associates, Sarasota, FL, Consulting Nutritionist, February 1996 to February 1998

Monsanto Company, St. Louis, MO, Senior Technical Services Representative, January 1994 to February 1996

University of Tennessee, Knoxville, TN, Graduate Research Assistant, 1988 to 1994

3. Undergraduate and Graduate Instruction

Frank Phillips College

AGRI 1419 – General Animal Science – 4h

AGRI 1329 – Food Science – 3h

AGRI 1407 – Agronomy – 4h

AGRI 2317 – Introduction to Agricultural Economics – 3h

AGRI 1325 – Marketing of Agricultural Products – 3h

AGAH 2313 – Principles of Feeds and Feeding – 3h

Sul Ross State University

ANSC 1419 – General Animal Science – 4h

ANSC 2306 – Small Animal Management – 3h

ANSC 3201 – Advanced Live Animal Evaluation – 2h

ANSC 3301 – Clinical Pathology – 3h

ANSC 3303 – Pharmacology – 3h

ANSC 3309 – Sheep and Goat Production – 3h

ANSC 3310 – Anatomy and Physiology of Domestic Animals – 3h

ANSC 3313 – Equine Nutrition – 3h

ANSC 3315 – Behavior and Management of Domestic Animals – 3h

ANSC 3316 – Feed Manufacturing and Formulation – 3h

ANSC 3317 – Livestock and Wildlife Nutrition – 3h

ANSC 4306 – Livestock and Wildlife Diseases – 3h

ANSC 5303 – Advanced Ration Formulation – 3h - online

ANSC 5309 – Advanced Animal Nutrition – 3h - online

ANSC 5324 – Advanced Physiology and Biochemistry of Domestic Animals – 3h - online

ANSC 5329 – Animal Breeding and Genetics - online

Tennessee Tech University

ANS 1210 - Introduction to Animal Science Lab – 1h

ANS 2020 - Livestock Management - 3h

ANS 2110 - Livestock Evaluation - 3h

ANS 3010 - Animal Nutrition - 3h

ANS 3020 - Feeds and Feeding - 3h

ANS 4120 - Swine Production – 3h

ANS 4940 - Special Topics-Anatomy and Physiology - 3h

Texas A&M University-Commerce

AnS 118 - Introduction to Animal Science - 4h

AnS 205 - Livestock Selection and Evaluation - 3h

Ans 307 - Animal Feeding - 3h

AnS 316 - Dairying - 3h

AnS 319 - Anatomy and Physiology of Domestic Animals - 3h

AnS 412 - Beef Cattle Production - 3h

AnS 413 - Swine Management - 3h

Ans 497 - Animal Behavior - 3h

Ans 497 - Scenario Based Livestock Selection - 3h

AnS 597 - Advanced Ration Balancing - 3h

AnS 597 - Nutritional Biochemistry - 5h

AG 300 - Writing for Publication - 1h

AG 392 - Applied Agricultural Ethics - 3h

AG 400 - Senior Seminar - 1h

EQSC 342 - Equine Nutrition - 3h

FdSc 318 - Meats Evaluation - 3h

4. Recruiting and Livestock Highlights

a. Frank Phillips College

Participated in a minimum of 4 college nights per year with booth set up, 2015 - 2023

Visited and presented at 6 high schools per year, 2015 - 2023

Attended State FFA Convention as FPC representative, 2015 and 2016

Purchased 5 show heifers to begin a show team, 2021

Secured frozen embryos from a donor to begin purebred herd, 2019

Assisted in recruiting two Livestock Judging Teams, 2015 - 2022

Signed 100% of students who visited College for Fall '18 Team

Recruited general students through Livestock Genetics Center, 2017 - 2023

Secured donation of two purebred Red Angus cows, 2017

Attended and recruited at Texas State FFA Convention – 2015 and 2016

Obtained external clients for breeding services at new Livestock Genetics Center,
2021 – 2023

b. Sul Ross State University

Organized and started student recruiting and outreach group, ANRSreps 2012

Worked with ANRSreps to schedule campus tours and recruiting visits, 2012 - 2014

Attended State FFA Convention as a college representative, 2012 - 2014

Spoke at 5 high school assemblies to recruit students to SRSU, 2012 - 2014

Attended county shows to visit with students and recruit, 2012 – 2014

c. Tennessee Tech University

Attended Putnam County Cattleman's Field Day, 2011

Participated in 2 high school talks with agriculture students, 2011

d. Texas A&M University – Commerce

Organized and started Ag Ambassadors, 2002

Participated in various show cattle field days, 2002 – 2007

Judged a variety of stock shows across East TX, 2000 – 2007

Spoke at a number of high schools to assemblies and ag students, 2001 – 2007

Attended district 4-H banquets in East TX, 2002 – 2005

Recruited both junior college and high school students to participate on the
Collegiate Livestock Judging Team, 2002 – 2006

5. Service Activities

a. Frank Phillips College

Currently have secured over \$300,000 in donations to the agriculture program,
2016 - 2023

Developed articulation agreements with Sul Ross State University, West Texas A&M
University and in process, Texas Tech University, 2017 - 2023

Chair – Math Pathways Implementation Team, 2019

Retention Planning Management Steering Committee, 2018 - 2019

Collegiate FFA Advisor, 2015 - 2018

Academic Standards Committee, 2015 - 2023

Student Grievance Appeal Committee, 2015 - 2022

Raised \$165,000 for building new Livestock Genetics Center, 2017

Professional Swine Manager Program in association with National Pork Producers,
2017 - 2020

Teaching Innovation Seminar – “Creative Schools,” 2019

Sul Ross State University

Developed Online MS program in Animal Science, 2013

University Curriculum Council, 2013 - 2014

University Research Council, 2013 - 2015

Title V Post Baccalaureate Fellowship Committee, 2014

University Technology and Library Committee, 2013 - 2015

Chair – IACUC, 2013 - 2015

Athletic Committee, 2013 - 2015

Scholarship Committee, 2013 - 2015

Texas A&M-Commerce

Morris Scholarship Committee, Spring 2002-Selection of outstanding M.S. and Ph.D.
candidates

Faculty Senate Representative, 2002-2005- Department of Agricultural Sciences

University Honors Committee, 2002-2006

Academic Life Committee, 2002-2003 Co-Chairman-2004-2005

Athletic Council, 2005-2007

b. College – Sul Ross State University

Faculty Advisor – ANRSreps – Recruiting and Speaking student group for college

Faculty Supervisor for all species on college ranch

Responsible for equine facilities

Texas A&M-Commerce

Member Dean’s Star Society

Sigma Xi Member and Fall Keynote Speaker, 2001

Charter Member of Animal Care and Use Committee

c. School – Tennessee Tech University

Director of Block and Bridle Bull Sale, December 2011

Co-Advisor – Block and Bridle Club, 2011

Co-Advisor – Pre-Veterinary Club, 2011

Faculty Liason to Oakley Sustainable Agriculture and Research Farm, 2011

d. Department – Sul Ross State University

Chairman – Search Committee for Exotic Ranch Management Faculty

Chairman – Search Committee for Ranch Manager

Faculty Advisor – Sul Ross State University Pre-Vet Club

Faculty Advisor – Sul Ross State University Ranch Horse Team

e. Texas A&M-Commerce

Started and Coached Intercollegiate Livestock Judging Team

Advisor Alpha Gamma Pho Fraternity

Faculty/Student Mentor Program Participant

Started and advisor for Ag-Ambassadors recruiting group

Member of Recruitment, Retention and Alumni Relations Committee

Contest Superintendent for Area 5 and 6 FFA Livestock Contests

Contest Superintendent for Districts 3 and 4 4-H Livestock Contest

f. Community

Member – Panhandle Livestock Committee - 2018

Showmanship Judge – Hemphill County Livestock Show - 2017

Advisory Committee of Career and Technical Education – Borger ISD, Borger, TX

Board Member – Putnam County Cattleman's Association – Cookeville, TN

Featured Speaker at 2011 Great Plains Dairy Symposium

Spoke and published at Alltech International Nutrition Symposium, 2008

Judged 68 FFA/4-H livestock Shows

Assisted local producers with dairy and beef nutrition questions

Member Cookeville Noon Lions Club – Cookeville, TN

Member Commerce Lions, Club-Vice-President 2004-2005

Assisted local 4-H with show projects and judging teams

Associate Superintendent

Junior Beef Heifer Show, State Fair of Texas, 2017

Associate Superintendent

Open Beef Cattle Show, State Fair of Texas, 2002, 2016 - 2019

Superintendent

Junior Steer Show, State Show, State Fair of Texas, 2003-2006

Spoke at Putnam Co. Cattleman's Meeting and Directors Meeting

Charter Member Northeast Texas Goat Raisers Association and Dept. Columnist

Member of Hunt County Beef Committee

Spoke at 2001 Hunt County Beef Exposition

Speaker at 2002-2005 East Texas Youth Beef Camp
Speaker at 2003 Anderson County Youth Beef Camp

6. Professional Association Memberships

American Society of Animal Science
Southern Association of Animal Science
Equine Science Society
Member of Agricultural By-Product Coalition of America

7. Graduate Student Committee Involvement

Sul Ross State University

Major Advisor

Clayton Gillespie – May 2015

Committee Member

Martin Smith – Completed May 2014
Jon Brooks – Completed December 2014
Jacob Haile – Completed December 2014
Rebecca Nogler – Completed December 2014
Kelly Thompson – Completed December 2014

Lauren Anders – Completed May 2015
Nicholas Inserra – Completed May 2015
Melissa Petersen – Completed May 2015

Texas A&M - Commerce

Major Advisor

Lea Ann Kinman-M.S. Spring 2001

Synchronization of Estrus and Fixed-time Insemination in Virgin Heifers

Heather Richardson-M.S. August 2002

The Effects of Serum Copper and Selenium Levels on Antibody Titers of Stocker Calves
Injected with Leptospirosis

Nicole McGovern-M.S. August 2002

Effect of Injection Site on Immune Response to Vaccine Challenge

Roger Skipper-M.S. May 2004

Effects of Serum Levels of Copper and Zinc on Antibody Titers of Stocker Calves Injected
with *Leptospiriosis* Sp. Vaccine and Drenched with a Balanced Mineral Supplement

K. Wayne. Davenport-M.S. May 2005

John Cody Barnes-M.S. August 2005

Lisa Pickering-M.S. December 2006

Chris Ellason-M.S. August 2007

Effects of Plane of Nutrition on Kid Size, Body Weight, and Body Condition Score on Late Gestating Mature Boer Goats

Committee Member

Jennifer Dixon-M.S. December 2004

Tommy Phillips-M.S. May 2004

Tracy Stewart-M.S. December 2002

Jeremy Dicken-M.S. December 2002

Nathan Melson-M.S. May 2002

Mindy Morris-M.S. December 2001

Steven Gowin-M.S. December 2001

8. Undergraduate Honors Instruction

K. Wayne Davenport-B.S. May 2003

9. Research Projects as PI

Effects of Transport on Heart Rate and Physiological Parameters in Horses – B.C. Housewright, Research Enhancement Grant – Funded for \$5800 – Fall 2014

Cardiac and Metabolic Responses to Addition of Dietary Zeolite in Quarter Horses During a Sprint Training Regimen. B.C. Housewright, Research Enhancement Grant – Funded for \$6544 – Fall 2013

Effect of Plane of Nutrition of Dystocia, Kid Size and Incidence of Pregnancy Toxemia in Mature Boer Goats

Texas A&M University-Commerce- Mini grant- \$600.00

Effect of injection Site on Immune Response to Vaccine Challenge

Houston Livestock Show and Rodeo- \$1000.00 completed 2002

Effects of Increased Trace Mineral Supplementation of Immune Response in Steers to Leptospirosis Pomona Vaccination

Houston Livestock Show and Rodeo- \$4000 completed 2002

Effects of Feeding Regimen on Equine Salivary pH

Houston Livestock Show and Rodeo-\$4000.00 completed 2002

Effects of Fatty Acid and Quality of Raw Soybeans on Digestibility and Grains in Feeder Calves

Texas Soybean Board-\$3180-completed 2003

Effects of Fatty Acid Profile of Raw Soybeans on Rumen Nitrogen and Free Fatty Acid Levels *In Vitro*

Graduate School, Texas A&M University-Commerce-\$475-completed 2003

Economic and Production Impacts of Supplemental Raw Soybeans on Parlor Fed Dairy Cows

Texas Soybean Board-\$2800.00-completed 2004

Digestive Tract and Portal Blood Disappearance of Trace Minerals

Houston Livestock Show and Rodeo-\$5000.00

The Effect of Trace Mineral Supplementation of Antibody Titers of Stocker Calves Challenged With *Leptospirosis Pomona* Vaccine

Houston Livestock Show and Rodeo- \$4000.00

Consumption of Free Choice Mineral in Varying Forms by Mature Horses Consuming Hay *ad libitum*

11. Funded research as Collaborator

- a. Winter grazing regimes and mineral supplementation effects on follicular waves and puberty in prepuberal beef heifers
Houston Livestock Show and Rodeo- \$5500.00
- b. Variety and Soil Fertility Options for Improving Yield and Quality of Soybean Hay in North Texas
Houston Livestock Show and Rodeo- \$2000.00

12. Proposals Not Funded

- a. Soil Amendments as a Means for Improving Growth and Sustainability of Grain Crops in North Texas.
Southern Region SARE-\$45000.00
- b. New Food and Animal Waste Composting Technology-A National Outreach/Technology Transfer Initiative
Chancellor Federal Initiative- \$2,500,000
- c. Science Education to Combat Waterborne Terrorism
Chancellor or Federal Initiative- \$1,300,000
- d. The Effects of Corn Derived Aflatoxin and Fumonisin on Days to First Estrus in Ruminants
Texas Corn Producers Board- \$8400.00
- e. The Effects of Floating Teeth on Weight Gains and Feed Digestibility in Horses from Weanling to Yearling.
Archer Daniels Midland/AIN Inc.-approximately \$3000.00

- f. Effects of Preconditioning Regime on Subsequent Feedlot Performance of Calves
Northeast Texas Beef Improvement Organization-\$2572.00
- g. Rumen Environment and Digestion Changes in Goats Supplemented with Two Commercially Available Live Yeast Cultures.
Western Yeast Inc.- \$4500.00

13. Refereed Abstracts

Estepp, C. M., Housewright, B. C., & Bennett, M. R. (2013). The development of best practices in mentoring undergraduate research [Abstract]. *NACTA Journal*, 57(supplement 1), 43

Effect of supplemental molasses on equine salivary pH subsequent bacterial acid production. 2003. B.C. Housewright*, E.L. Swain, J. Hamra, L.L. Richardson and D.B. Crenshaw. Texas A&M University Commerce. *J. Anim. Sci.*, 71(Suppl. 1).

Effect of fatty acid profile on *in situ* and *in vitro* digestibility of raw soybean in grazing cattle. 2003. B.C. Housewright*, L.L. Pickering, H.L. Richardson, D.D. Kee, J. Heitholt, V. Pantalone, and K.W. Davenport, Texas A&M University-Commerce, Texas Cooperative Extension Service, Texas Agricultural Experiment Station-Dallas, University of Tennessee, Knoxville. *J. Anim. Sci.*, 71(Suppl. 1).

Effects of serum Cu and Se levels on antibodies titers of stocker calves exposed to *Leptospiriosos Pomona* vaccine. 2003. H.L. Richardson, B.C. Housewright and D.B. Crenshaw. *J. Anim. Sci.*, 71(Suppl. 1).

Housewright, B.C., R. N. Heitmann, J.C. Waller, L.A. Caldwell, and R.E. Towns. 1989. Effect of corn distillers dried grains with soluble on rumen, post-gastric, and hepatic net fluxes of energy metabolites. *J. Anim. Sci.* 67(Suppl. 1):543

Housewright, B.C., R. N. Heitmann, J.C. Waller, L.A. Caldwell, and R.E. Towns. 1989. Effect of corn distillers dried grains with soluble on rumen, post-gastric, and hepatic net fluxes of energy metabolites. *J. Anim. Sci.* 67(Suppl. 1):543

Housewright, B.C., J.C. Waller, J.C. Waller, J.C. Forcherio, and H.A. Fribourg. 1989. Comparison of two forage systems on subsequent cow-calf performance during spring. *J. Anim. Sci.* 67(Suppl. 2):64.

Housewright, B.C., R.N. Heitmann, J.C. Waller, and J.E. Wells. 1990. Portal-drained viscera(PDV), hepatic(HEP) and total splanchnic(TSP) nitrogen flux in sheep feed increasing ADFN. *FASEB.* 4(3):A385

Forcherio, J.C., J.C. Waller, R.E. Towns, and B.C. Housewright. 1990 Effects of increasing levels of soy meal feed in corn in corn silage based growing diets on steer performance in feedlot. *J. Anim. Sci.* 68(Suppl. 1):477

- Housewright, B.C., J.C. Waller, R.N. Heitmann, J.D. Quigly, and J.E. Wells. 1990. Portal-drained viscera(PDV), hepatic(HEP), and hindquarter(RUMP) VFA flux in sheep fed increasing concentrations of structural carbohydrates, J. Anim. Sci. 68 (Suppl. 1):512
- Housewright,B.C., R.E. Towns, and J.C. Waller. 1991. Rumen-escape protein and energy supplements for starting calves on feed. J.Anim. Sci. 70(Suppl. 1): 31
- Thompson, R.W., J.C. Waller, H.A. Fribourg, A.B. Chestnut, and B,C, Housewright. 1992. Steer performance from tall fescue pastures free fescue pastures free of fungal entophyte or infested at two levels. J. Anim. Sci. 70(Suppl. 1):21
- Waller, J.C., B.C. Houswright, and M.A. Battrell. 1992. A comparison of chromic oxide, lignin and indigestible acid detergent fiber as markers to determine digestibility of feedlot diets. J. Anim. Sci. 71(Suppl. 1):314
- Housewright, B.C., R.N. Heitmann, J.C. Waller, L.N. Lembo, and Campbell. 1993 Alterations of energy metabolite fluxes in sheep fed a high forage diet, with or without supplemental ionophore. J. Anim. Sci. FASEB J. 7:A841
- Housewright, B.C., R.N. Heitmann, J.C. Waller, L.N. Lembo, and Campbell. 1993 Alterations of energy metabolite fluxes in sheep fed a high forage diet, with or without supplemental ionophore. J. Anim. Sci. (Suppl. 1):267
- Housewright, B.C., R.N. Heitmann, J.C. Waller, L.N. Lembo, and Campbell. 1993 Alterations of energy metabolite fluxes in sheep fed a high forage diet, with or without supplemental ionophore. J. Anim. Sci. (Suppl. 1):191
- Housewright, B.C., R.N. Heitmann, J.C. Waller, L.N. Lembo, and Campbell. 1993 Alterations of energy metabolite fluxes in sheep fed a high forage diet, with or without supplemental ionophore. J. Anim. Sci. (Suppl. 1):190

14. Refereed Articles

- Effects of serum levels of copper and zinc on antibody titers of two breeds of stocker calves injected with *Leptospiriosis sp.* vaccine and drenched with an organic mineral supplement. 2011. Housewright, B.C., R. Skipper, D. Crenshaw, and C.P. Bagley. TX J Agric and Nat Resour. 23:90-96.
- Formulating Phosphorus in Dairy Diets, A New Way of Thinking, Byron Housewright, Texas A&M-Commerce, 2008, Alltech 24th Nutrition Symposium.
- Horse Preference and Digestion Rates of Hays as Influenced by Bermudagrass Variety and Harvest time. 2005. M.L. Foster, C.P. Bagley and B.C. Housewright. American Forage and Grasslands Conference
- Injecting Anhydrous Ammonia into Polyethylene Silage Bags to Enhance Forage Quality Attributes and Measure Silage Preference by Heifers. 2005. W.D. Becker, C.P. Bagley, B. Housewright and D. Harp. American Forage and Grasslands Conference.

Influence of Depigmentation of Peral Millet(*pennisetum glaucum* L.)on Sensory Attributes, Nutrient Composition and In vitro Digestibility of Biscuits. 2004. Rath, A., A. Kawatra, S. Sehgal and B. Housewright. Food Science and Technology/LWT. 37(2):187

Managing Fescue Pasture for Horses. David Kee and Byron Housewright. Texas A&M University, Cooperative Extension Publication, 2003

15. Newspapers and Magazines

Managing Fescue Pasture for Horses. David Kee ,Byron Housewright and Erin Swain. Country World.