

## **Justin D. Rhinehart, PhD**

Interim Dean & Professor

University of Tennessee Institute of Agriculture  
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### **EDUCATION**

Ph.D.	West Virginia University Major: <b>Reproductive Physiology</b>	2007
M.S.	University of Kentucky Major: <b>Reproductive Physiology</b>	2003
B.S.	University of Tennessee – Knoxville Major: <b>Agriculture and Extension Education</b>	1999

### **PROFESSIONAL GOAL**

The definitive goal of my career is to positively impact the lives and livelihoods of Cooperative Extension clientele by supporting a system that efficiently and effectively disseminates science-based education.

### **EMPLOYMENT**

2025-Present	Dean & Professor – UT Extension, University of Tennessee Institute of Agriculture, The University of Tennessee, Knoxville, TN.
2024-2025	Interim Dean & Professor – UT Extension, University of Tennessee Institute of Agriculture, The University of Tennessee, Knoxville, TN.
2022-2024	Assistant Dean & Professor – UT Extension State Program Leader for Agriculture & Natural Resources and Community Economic Development, The University of Tennessee, Knoxville, TN.
2021-2022:	Professor – Extension Beef Cattle Specialist, Department of Animal Science, The University of Tennessee, Knoxville, TN.
2016-2021:	Associate Professor – Extension Beef Cattle Specialist, Department of Animal Science, The University of Tennessee, Knoxville, TN.
2010-2016:	Assistant Professor – Extension Beef Cattle Specialist, Department of Animal Science, The University of Tennessee, Knoxville, TN.
2007–2010:	Assistant Extension Professor - Beef Cattle Specialist, Department of Animal and Dairy Sciences, College of Agriculture and Life Sciences, Mississippi State University, Starkville, MS.
2003–2007:	Graduate research assistant, Division of Animal and Veterinary Sciences, Davis College of Agriculture Forestry and Consumer Sciences, West Virginia University, Morgantown, WV. Earned Ph.D. in Reproductive Physiology under the direction of Dr. E. Keith Inskeep. Dissertation entitled “Roles of luteal function and allantoic development in cattle.”
2000–2003:	Graduate research assistant, Department of Animal and Food Sciences, College of Agriculture, University of Kentucky, Lexington, KY. Earned M.S. in Reproductive Physiology under the direction of Dr. Leslie H. Anderson. Thesis entitled “Effects of fat supplementation on reproductive parameters of beef heifers fed endophyte-infected fescue seed.”

## **PUBLICATIONS**

### *Refereed Journal Articles*

- 2023 Brandt, K. J.; T. B. Ault-Seay, R.R. Payton, L.G. Schneider, J.L. Edwards, P.R. Myer, **J.D. Rhinehart** and K.J. McLean. The Impacts of Supplemental Protein during Development on Amino Acid Concentrations in the Uterus and Pregnancy Outcomes of Angus Heifers. *Animals*. 13(12):2076-2615. <https://doi.org/10.3390/ani13121995>
- 2022 Horn, E.J.; C.C. Read, J.L. Edwards, F.N. Schrick, **J.D. Rhinehart**, R.R. Payton, S.R. Campagna, J.L. Klabnik, H.M. Clark, P.R. Myer, K.J. McLean and S.E. Moorey. Preovulatory follicular fluid and serum metabolome profiles in lactating beef cows with thin, moderate, and obese body condition.
- 2022 Liles, H.L.; L.G. Schneider, K.G. Pohler, R.V. Oliveira Filho, F.N. Schrick, R.R. Payton, **J.D. Rhinehart**, K.W. Thompson, K. McLean and J.L. Edward. Positive relationship of rectal temperature at fixed timed artificial insemination on pregnancy outcomes in beef cattle. 100(7) <https://doi.org/10.1093/jas/skac100>
- 2022 Read, C.C.; J.L. Edwards, F.N. Schrick, **J.D. Rhinehart**, R.R. Payton, S.R. Campagna, H.F. Castro, J.L. Klabnik and S.E. Moorey. Preovulatory serum estradiol concentration is positively associated with oocyte ATP and follicular fluid metabolite abundance in lactating beef cattle. *J. Anim. Sci.* 100(7) <https://doi.org/10.1093/jas/skac136>
- 2022 Horn, E.J.; C.C. Read, J.L. Edwards, F.N. Schrick, **J.D. Rhinehart**, R.R. Payton, S.R. Campagna, J.L. Klabnik, H.M. Clark, P.R. Myer, K.J. McLean and S.E. Moorey. Preovulatory follicular fluid and serum metabolome profiles in lactating beef cows with thin, moderate, and obese body condition *J. Anim. Sci.* 100(7) <https://doi.org/10.1093/jas/skac152>
- 2022 Thompson, T.; C.N. Boyer, C.C. Martinez, T.N. Rowan and **J.D. Rhinehart**. Valuation of Genomic-Enhanced Expected Progeny Differences in Bull Purchasing. *J. Ag. Applied Econ.* 54(4):713-722 <https://doi.org/10.1017/aae.2022.36>
- 2022 Keyser, P.; K.E. Zechiel, G.E. Bates, A.J. Ashworth, R. Nave, **J.D. Rhinehart** and D.W. McIntosh. Evaluation of five C4 forage grasses in the tall Fescue Belt. *Agronomy J.* 114(6):3347-3357 <https://doi.org/10.1002/agj2.21195>
- 2022 Ault-Seay, T. B.; J.K. Brandt, M.T. Henniger, R.R. Payton, D.J. Mathew, S.E. Moorey, F.N. Schrick, K.G. Pohler, T.P.L. Smith, **J.D. Rhinehart**, L.G. Schneider, J.K. McLean and P.R. Myer. Bacterial Communities of the Uterus and Rumen During Heifer Development With Protein Supplementation. *Front. Anim. Sci.* 3 <https://doi.org/10.3389/fanim.2022.903909>
- 2021 Read, C.C.; J.L. Edwards, F.N. Schrick, **J.D. Rhinehart**, R.R. Payton, S.R. Campagna, H.F. Castro, J.L. Klabnik, E.J. Horn and S.E. Moorey. Correlation between Pre-Ovulatory Follicle Diameter and Follicular Fluid Metabolome Profiles in Lactating Beef Cows. *Metabolites*. 11(9):623. <https://doi.org/10.3390/metabo11090623>
- 2021 Ault-Seay, T.B.; T.D. Harrison, K.J. Brandt, R.R. Payton, L.G. Schneider, P.R. Myer, **J.D. Rhinehart**, L.A. Rispoli and K.J. McLean. The effects of protein level on

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- cytokines and chemokines in the uterine environment of beef heifers during development, *Journal of Animal Science*. 99(6). <https://doi.org/10.1093/jas/skab105>
- 2021 Boyer, C.N.; K. Burdine, **J.D. Rhinehart** and C.M. Martinez. Replacing Late-Calving Beef Cows to Shorten Calving Season. *Journal of Agricultural and Resource Economics* 46(2):228–241 <https://doi.org/10.22004/ag.econ.304773>
- 2020 Boyer, C.; T.E. Yu, **J.D. Rhinehart**, A. Ahles and M. Gill. Does Tennessee Master Beef Producer Program Impact Technical Efficiency? *Western Economics Forum, Western Agricultural Economics Association* 18(2). <https://doi.org/10.22004/ag.econ.308110>
- 2020 Boyer, C., K. Zechiel, P. D. Keyser, **J.D. Rhinehart**, and G. E. Bates. Risk and Returns from Grazing Beef Cattle on Warm-Season Grasses in Tennessee. *Agronomy*. 112(1):301-308. <https://doi.org/10.1002/agj2.20032>
- 2020 Filho, R.; G.A. Franco, S.T. Reese, F.G. Dantas, P.L.P. Fontes, R.F. Cooke, **J.D. Rhinehart**, K.W. Thompson, and K.G. Pohler. Using pregnancy associated glycoproteins (PAG) for pregnancy detection at day 24 of gestation in beef cattle. *Theriogenology*, 141(1):128–133. <https://doi.org/10.1016/j.theriogenology.2019.09.014>
- 2020 Franco, G., Reese, S., Poole, **R., Rhinehart**, J., Thompson, K., Cooke, R., & Pohler, K. (2020). Sire contribution to pregnancy loss in different periods of embryonic and fetal development of beef cows. *Theriogenology*, 154, 84-91.
- 2020 Gelley C. H.; A. J. Ashworth, P. D. Keyser, R. N. Oakes, and **J.D. Rhinehart**. Water-Use Efficiency of Forage Crops in the Southeastern United States. *Agronomy*. 10(9):1377. <https://doi.org/10.3390/agronomy10091377>
- 2019 Boyer, C.; K. Campbell, A. P. Griffith, K. L. DeLong, J. D. Rhinehart and F. D. Kirkpatrick. Price Determinants of Performance Tested Bulls over Time. *J Ag and App Econ*. 51(2):304-314. <https://doi.org/10.1017/aae.2019.3>
- 2017 Lockwood, S. A.; H. G. Kattesh, J. D. Rhinehart, L. G. Strickland, P. D. Krawczel, J. B. Wilkerson, F. D. Kirkpatrick, and A. M. Saxton. Relationships among temperament, acute and chronic cortisol and testosterone concentrations, and breeding soundness during performance testing of Angus bulls. *Theriogenology* 89:150-145. <https://doi.org/10.1016/j.theriogenology.2016.10.019>
- 2016 Lewis, K. E., A. P. Griffith, C. Boyer, and J. D. Rhinehart. Does Parturition Supplemental Feed Impact Beef Cattle Profitability Through Finishing? *J Ag and App Econ*. 48(2): 173-191. <https://doi.org/10.1017/aae.2016.9>
- 2015 Lockwood, S.A., H.G. Kattesh, P.D. Krawczel, F.D. Kirkpatrick, A.M. Saxton, **J.D. Rhinehart** and J.B. Wilkerson. 2015. Relationships among temperament, behavior, and growth during performance testing of bulls. *J Anim Sci*. 93(12):5856-5862. <https://doi.org/10.2527/jas.2015-9302>
- 2012 Pfeiffer, K.E., J.A. Binversie, **J.D. Rhinehart** and J.E. Larson. Exposure of beef females to the biostimulatory effects of bulls with or without deposition of seminal plasma prior to AI. *Anim. Reprod. Sci*. July; 133(1-2):27-34. <https://doi.org/10.1016/j.anireprosci.2012.06.011>
- 2012 Pfeiffer, K.E., J.A. Binversie, **J.D. Rhinehart** and J.E. Larson. Exposure of beef females to the biostimulatory effects of bulls with or without deposition of seminal

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- plasma prior to artificial insemination. *Anim. Reprod. Sci.* 133(1-2):27-34.  
<https://doi.org/10.1016/j.anireprosci.2012.06.011>
- 2009 **Rhinehart, J. D.**, M.J. Starbuck-Clemmer, J. A. Flores, R. A. Milvae, J. Yao, D. H. Poole and E. K. Inskeep. Low peripheral progesterone and late embryonic/early fetal loss in suckled beef and lactating dairy cows. *Theriogenology* 71:480-490.  
<https://doi.org/10.1016/j.theriogenology.2008.07.031>
- 2009 Odhiambo, J.F., **J. D. Rhinehart**, R. Helmondollar, J. Y. Pritchard, P. I. Osborne, E. E. Felton and R. A. Dailey. Effect of weaning regimen on energy profiles and reproductive performance of beef cows. *J. Anim. Sci.* 87(7):2428-2436.  
<https://doi.org/10.2527/jas.2008-1138>
- 2009 Parish, J. A. and **J. D. Rhinehart**. Use of an internet-based hay directory in beef cattle extension programming. *J. Ext.* 42:2 online.
- 2008 Doerr, M. D., M. P. Goravanahally, **J. D. Rhinehart**, E. K. Inskeep and J. A. Flores. Effects of endothelin receptor type-A and type-B antagonists on prostaglandin F<sub>2α</sub>-induced luteolysis of the sheep corpus luteum. *Biol. Reprod.* 78(4):688-696.  
<https://doi.org/10.1095/biolreprod.107.064105>
- 2008 Lingenfelter, B. M., R. A. Dailey, E. K. Inskeep, M. W. Vernon, D. H. Poole, **J. D. Rhinehart**, and J. Yao. Microarray analysis of gene expression in granulosa cells from persistent follicles in cattle. *Anim. Reprod. Sci.* 3;104(2-4):405-413.  
<https://doi.org/10.1016/j.anireprosci.2007.07.014>
- 2006 Lingenfelter, B. M., R. A. Dailey, E. K. Inskeep, M. W. Vernon, D. H. Poole, **J. D. Rhinehart**, and J. Yao. Changes of maternal transcripts in oocytes from persistent follicles in cattle. *Mol. Reprod. Devel.* 74(3): 265-272.  
<https://doi.org/10.1002/mrd.20568>

#### *Refereed Extension Publications*

- 2023 Rowan, T.; C.C. Martinez and **J.D. Rhinehart**. Genetic Selection Tools for Foundation Traits in Beef Cows. *UT Extension Publication*, W1050
- 2020 C. Carter, and **J.D. Rhinehart**. Reproductive anatomy of the cow/heifer. *UT Extension Publication*, W934
- 2020 Griffith, A. P., C. Boyer, **J.D. Rhinehart**, and C. Carter. Cost-Benefit Analysis of Timed A.I. and Natural Service in Beef Cattle. *UT Extension Publication*, W899
- 2020 Myer, P., T. B. Seay, and **J.D. Rhinehart**. Cattle Gut Microbe Series: Ruminococcus species. *UT Extension Publication*, W938
- 2020 Myer, P., T. B. Seay, and **J.D. Rhinehart**. Cattle Gut Microbe Series: Lactobacillus species. *UT Extension Publication*, W905
- 2020 **Rhinehart, J.D.**, F. D. Kirkpatrick, J. K. Smith, L. G. Strickland, G. E. Bates, and D. McIntosh. 2020\* Beef Integrated Resource Management Calendar. *UT Extension Publication*, PB1663
- \*Issued annually with the same primary reference number and the year noted after.*
- 2019 Griffith, A. P., C. Boyer, K. L. DeLong, **J.D. Rhinehart**, and F. D. Kirkpatrick. Price Determinants of Performance-tested Bulls Over Time in Tennessee. *UT Extension Publication*, W873

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- 2018 Boyer, C., A. P. Griffith, **J.D. Rhinehart**, and F. D. Kirkpatrick. Bull Qualification for Tennessee Agricultural Enhancement Program Through the University of Tennessee Bull Testing Sale. *UT Extension Publication*, W655
- 2017 Smith, J. K., **J.D. Rhinehart**, L. G. Strickland, H. D. Loveday, and K. Ferguson. 4-H Beef Cattle Project Learning Outcomes: Beginner level. *UT Extension Publication*, W457-A
- 2017 Smith, J. K., **J.D. Rhinehart**, L. G. Strickland, H. D. Loveday, and K. Ferguson. 4-H Beef Cattle Project Learning Outcomes: Intermediate level. *UT Extension Publication*, W457-B
- 2017 Smith, J. K., **J.D. Rhinehart**, L. G. Strickland, H. D. Loveday, and K. Ferguson. 4-H Beef Cattle Project Learning Outcomes: Advanced level. *UT Extension Publication*, W457-C
- 2015 Bates, G. E., A. Rius, **J.D. Rhinehart**, J. T. Mulliniks, and D. McIntosh. Forage analysis definitions. *UT Extension Publication*, SP744
- 2015 **Rhinehart, J.D.** Freeze branding beef cattle. *UT Extension Publication*, SP775
- 2015 **Rhinehart, J.D.**, F. M. Hopkins, C. D. Lane, Jr., and D. Bilderback. Managing malnourished beef cattle. *UT Extension Publication*, SP777
- 2015 **Rhinehart, J.D.** Starting and managing a defined calving season. *UT Extension Publication*, SP778
- 2014 Neel, J. B., F. D. Kirkpatrick, C. D. Lane, Jr., **J.D. Rhinehart**, and L. G. Strickland. Adding Value Through Cattle Handling Facilities. *UT Extension Publication*, D10
- 2011 **Rhinehart, J.D.**, B. J. McIntosh, and F. M. Hopkins. Cattle Mortality Disposal Options in Tennessee. *UT Extension Publication*, W259
- 2011 McIntosh, B. J., **J.D. Rhinehart**, and F. M. Hopkins. Equine Disposal Options in Tennessee. *UT Extension Publication*, W257
- 2008 **Rhinehart, J. D.** and J. A. Parish. Replacement beef heifer development. *MSU-ES*. Pub# 2488.
- 2008 **Rhinehart, J. D.**, J. D. Anderson and J. A. Parish. Economic impact of artificial insemination vs. natural mating for beef cattle herds. *MSU-ES*. Pub# 2486.
- 2008 Parish, J. A. and **J. D. Rhinehart**. Freeze branding beef cattle. *MSU-ES*. Pub# 2464.
- 2008 Parish, J. A. T. Smith and J. D. Rhinehart. Expected progeny differences and selection indices for beef cattle selection. *MSU-ES*. Pub# 2491.
- 2008 Parish, J. A. and **J. D. Rhinehart**. Growth-promoting implants for beef cattle. *MSU-ES*. Pub# 2485.
- 2008 Parish, J. A. and **J. D. Rhinehart**. Beef cattle water requirements and source management. *MSU-ES*. Pub# 2490.
- 2008 Parish, J. A. and **J. D. Rhinehart**. Body condition scoring beef cattle. *MSU-ES*. Pub# 2508.
- 2008 Parish, J. A. and **J. D. Rhinehart**. Fiber in beef cattle diets. *MSU-ES*. Pub# 2489.
- 2008 Parish, J. A. and **J. D. Rhinehart**. Mineral and vitamin nutrition for beef cattle. *MSU-ES*. Pub# 2484.

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- 2008 Parish, J. A. and **J. D. Rhinehart**. Protein in beef cattle diets. *MSU-ES*. Pub# 2499.
- 2008 Parish, J. A., **J. D. Rhinehart** and P. R. Buff. Mississippi animal disease and disaster preparedness program. *MSU-ES*. Pub# 2487.
- 2008 Parish, J. A. and **J. D. Rhinehart**. Selecting a feedlot for beef cattle finishing. *MSU-ES*. Pub# 2505.
- 2008 Parish, J. A. and **J. D. Rhinehart**. Calving season selection considerations. *MSU-ES*. Pub# 2501.

#### ***Refereed Proceedings***

- 2015 DeLong, K.L.; A.P. Griffith, C. Boyer, and **J.D. Rhinehart**. Returns to Retained Ownership through Finishing for Beef Cattle Originating from Tennessee. *Annual Meeting, January 31-February 3, 2015, Atlanta, Georgia 196620, Southern Agricultural Economics Association*. <https://doi.org/10.22004/ag.econ.196620>
- 2012 **Rhinehart, J.D.** and M.H. Poore. Southern Section Interdisciplinary Beef Cattle Symposium: Opportunities for stocker cattle in the southern U.S. *J. Anim. Sci.* 91:501-502. <https://doi.org/10.2527/jas.2012-6095>

#### ***Conference Proceedings***

- 2019 **Rhinehart, J.D.** Know the game you're playing. Proceedings, Applied Reproductive Strategies In Beef Cattle; August 20-21, 2019; Knoxville, TN. <https://beefrepro.org/wp-content/uploads/2020/09/01-Rhinehart-JD.pdf>
- 2016 Pohler, K., F. G. Dantas, K. E. Zechiel, S. T. Reese, G. A. Franco, and **J.D. Rhinehart**. Keys to maximizing reproductive efficiency in a beef herd. Proceedings, 2016 Curso Novos Enfoques na Produção e Reprodução de Bovinos, Uberlândia-MG, Brazil <http://www.conapej.com.br/>
- 2016 **Rhinehart, J.D.**; K. Pohler, and L. Anderson. Physiological factors affecting success to reproductive technologies. Proceedings, Applied Reproductive Strategies in Beef Cattle, Applied Reproductive Strategies in Beef Cattle. September 7-8, 2016; Des Moines, IA. <https://beefrepro.org/wp-content/uploads/2020/09/01-rhinehart-6-14.pdf>
- 2011 **Rhinehart, J.D.** Cattle selection for grass-fed beef. Proceedings, Tennessee Forage and Grasslands Council. November 4, 2011. Nashville, TN.
- 2011 **Rhinehart, J.D.** Crossbreeding to optimize heterosis. Proceedings, Northeast Tennessee Beef Expo. October 13, 2011. Greeneville, TN.
- 2011 **Rhinehart, J.D.** Managing cattle shrink during stress and transportation. Proceedings, East Tennessee Research and Education Center Field Day. June 9, 2011. Alcoa, TN.
- 2011 **Rhinehart, J.D.** University of Tennessee stocker and backgrounding research update. Proceedings, Mid-South Stocker Conference. February 21-22, 2011. Bowling Green, KY.
- 2010 **Rhinehart, J.D.** How stocker grazing management affects feedlot performance and carcass value. Proceedings, Tennessee Forage and Grasslands Council. November 5, 2010. Nashville, TN.
- 2010 **Rhinehart, J.D.** Replacement beef heifer selection and development. Proceedings, Northeast Tennessee Beef Expo. October 7, 2010. Greeneville, TN.

- 2010 Johnson, S.K.; R.N. Funston, J.B. Hall, G.C. Lamb, J.W. Lauderdale, D.J. Patterson, **J.D. Rhinehart**, and G.A. Perry. Proceedings, Applied Reproductive Strategies in Beef Cattle. August 5-6, 2010. Nashville, TN.  
[http://www.appliedreprostrategies.com/2010/August/pdfs/2-3\\_Rhinehart.pdf](http://www.appliedreprostrategies.com/2010/August/pdfs/2-3_Rhinehart.pdf)

#### *Mobile Applications*

- 2023 Anderson, L.H. and **J.D. Rhinehart**. [Stocket](#). Synchronized web- and mobile-application for educational delivery, communication, and record-keeping in agriculture. Available for [iOS](#) and [Android](#).
- 2015 Greenfield, J.B. and **J.D. Rhinehart**. [UT Extension Beef Cattle Repro](#). Available for iOS and Android.
- 2015 Paris, J.A. and **J.D. Rhinehart**. [MSUES Cattle Calculator](#). Available on iOS.

#### *Proceedings Abstracts*

- 2024 Main, S.; J. Ivey, L.G. Strickland and **J.D. Rhinehart**. Using youth hippology contest results as a needs assessment as a framework for a train the trainer program. *J. Anim. Sci.* 102:32-33
- 2023 Mullenix, K.; S. Gadberry, **J.D. Rhinehart**, S.L. Dillard, J.J. Tucker, R.L. Stewart, J. Vendramini, D.H. Poole, N.C.B. Sanchez, V.R.G. Mercadante, C.L. Bratcher, T.H. Welsh, J. Arthington, M.H. Poore, A.L. Earnhardt-San, L. Audrey, R.C. Carrell, S.M. Justice and D.R. Soffa. Awardee Talk: Foraging for Collaboration: Beef-Forage System Strengths Unite Research and Extension Efforts in the Asas Southern Section. *J. Anim. Sci.* 101:401
- 2020 Seay, T. B., K. J. Brandt, R. R. Payton, L. Schneider, P. Myer, **J. D. Rhinehart**, and L. A. Rispoli., and K. McLean. Pro- and anti-inflammatory cytokines in the uterine environment throughout beef heifer development with supplemental protein. ASAS-CSAS Annual Meeting and Trade Show, Madison, WI
- 2019 Harrison, T. D., K. J. Brandt, R. R. Payton, L. Schneider, P. Myer, **J.D. Rhinehart**, L. A. Rispoli, J. L. Edwards, and K. McLean. The effects of protein supplementation on concentrations of angiogenic cytokines and miscellaneous chemokines during heifer development. UTIA Graduate Research and Poster Symposium, UTBFC Annual Research and Recommendation Meeting, Knoxville, TN
- 2019 Proctor, J. A., N. S. Long, C. K. Biehler, L. Schneider, **J.D. Rhinehart**, and J. K. Smith. 204 Relationships between semen quality and scrotal circumference, adiposity, and rumen conditions of developing bulls. *J Anim Sci*.
- 2019 Proctor, J. A., N. S. Long, C. K. Biehler, L. Schneider, **J.D. Rhinehart**, L. G. Strickland, and J. K. Smith. 191 Effects of feeding strategy on growth performance and semen quality of developing bulls. *J Anim Sci*.
- 2018 Boyer, C., K. Zechiel, **J.D. Rhinehart**, P. D. Keyser, and G. E. Bates. Risk and Returns from Grazing Warm Season Grasses. American Forage and Grasslands Council
- 2019 L. Stewart, M. Mullenix, M. Hersom, J. K. Smith, P. Moriel, and **J.D. Rhinehart**. Southern Section Extension Forum: collaborating to meet the needs of clientele. *J. Anim. Sci* 97:S1.

- 2018 M.K. Mullenix, M S Hargaden, **J.D. Rhinehart**, J Vendramini, R L Stewart, Jr., B B Karisch, S Gadberry. ASAS Southern Section Regional Webinar Series for Extension Agent Training. *J. Anim. Sci.* 96:S1.
- 2018 Lockwood, S. A., H. G. Kattesh, K. Pohler, and **J.D. Rhinehart**. Influence of synchronization of ovulation and pregnancy on concentrations of corticosteroid binding globulin in beef heifers. *J Anim Sci*.
- 2018 Zechiel, K., **J.D. Rhinehart**, P. D. Keyser, G. E. Bates, and C. Boyer. Evaluation of Five Warm-season Forages for Beef Cattle Production. American Forage and Grasslands Council
- 2017 Dantas, F. G., K. E. Zechiel, S. T. Reese, G. A. Franco, **J.D. Rhinehart**, and K. Pohler. Using Pregnancy-Associated Glycoprotein (PAG) on Day 24 As Marker for Pregnancy on Beef Cattle. *J Anim Sci.*, Southern Section Meetings, Franklin, TN
- 2017 Proctor, J.A., K. Pohler, **J.D. Rhinehart**, and J. K. Smith. Effects of subacute ruminal acidosis and feeding management practices on fertility of yearling bulls. Proceedings of the UT Beef and Forage Center Graduate Research and Poster Symposium
- 2016 Zechiel, K. E., K. Pohler, S. A. Lockwood, W. M. Backus, and **J.D. Rhinehart**. Resynchronization for sequential timed artificial insemination. Journal of Animal Science, ASAS- ADAS Joint Annual Meeting. Salt Lake City, Utah
- 2015 Edwards, S. R., R. La Guardia Nave, **J.D. Rhinehart**, and J. T. Mulliniks. Developing heifers on stockpiled, dormant native forages delays gain without altering reproductive performance. Southern Section, *J Anim Sci*.
- 2015 Lewis, K. E., A. P. Griffith, C. Boyer, and **J.D. Rhinehart**. Returns to Tennessee Beef Cattle Retained Ownership through Finishing. Selected Paper. Southern Agricultural Economics Association Annual Meeting, Atlanta, GA. January 31-February 3, 2015
- 2015 **Rhinehart, J.D.**; J. B. Neel, F. D. Kirkpatrick, G. E. Bates, A. P. Griffith, and L. G. Strickland. Development and implementation of an advanced, multi-session extension training program in beef cattle production. *J Anim Sci*.
- 2014 Lockwood, S. A, H. G. Kattesh, P. D. Krawczel, J. B. Wilkerson, **J.D. Rhinehart**, F. D. Kirkpatrick, and A. M. Saxton. Relationships of temperament, behavior, and growth of performance tested bulls. *J Anim Sci.*, 92 (E-Suppl. 2):805
- 2012 **Rhinehart, J.D.**; L. H. Anderson, F. N. Schrick, A. Fisher, A. M. Arnett, W. R. Burris, and J.M. DeJarnette. Does altering the timing of insemination with gender sorted semen affect pregnancy rates? *J Anim Sci.*, Vol 90 E Supp., Abstract# 72
- 2011 Anderson, L.H., Bullock, K.D., **J.D. Rhinehart**, Lehmkuhler, J.W., and Burris, W.R. Using estrus synchronization and AI to improve market value of calves. *J Anim Sci*. Vol 89 E Supp., Abstract# 75
- 2011 **Rhinehart, J.D.**; Arnett, A.M., Anderson, L.H., Whittier, W.D., Larson, J.E., Burris, W.R., Elmore, J.B., Dean, D.T, and DeJarnette, J.M. Conception rates of sex-sorted semen in beef heifers and cows. *J Anim Sci*. Vol 89 E Supp. Abstract# 932
- 2009 **Rhinehart, J. D.** and J. A. Parish. Development of extension programming for feeder cattle marketing: assessment of need, demonstration and education. *J Anim Sci*. Vol 87 E Supp.

- 2009 J. A. Parish and **J. D. Rhinehart**. Integration of an internet-based hay directory into livestock extension programming. *J Anim Sci*. Vol 87 E Supp. Abstract #18.
- 2009 R.C. Vann, E.L. Schenck, S.T. Willard, and **J.D. Rhinehart**. Utilization of dried distillers grains for developing beef heifers grazing ryegrass-bermudagrass pastures. *J Anim Sci*. Vol 87 E Supp. Abstract #90.
- 2008 **Rhinehart, J. D.**, J. Watson, P. R. Buff and J. A. Parish. Mississippi animal disease and disaster preparedness program. *J Anim Sci*. Vol 86 E Supp. Abstract #13.
- 2008 Parish, J. A., **J. D. Rhinehart** and P. R. Buff. Mississippi Master Stockman: collaborative beef and equine programming – beef emphasis. *J Anim Sci*. Vol 86 E Supp. Abstract #12.
- 2008 Buff, P. R., J. A. Parish and **J. D. Rhinehart**. Mississippi Master Stockman: collaborative beef and equine programming – equine emphasis. *J Anim Sci*. Vol 86 E Supp.
- 2007 Flores, J. A., M. Doerr, M. Goravanahally, **J. D. Rhinehart** and E. K. Inskeep. Endothelin-independent and –dependent luteolytic effects of prostaglandin F<sub>2α</sub> in ewes. Abstract submitted to 2007 annual meeting of the *Society for the Study of Reproduction*.
- 2006 **Rhinehart, J. D.**, R. A. Dailey, D. H. Poole, E. K. Inskeep. Association of timing of chorioallantoic membrane development with age in dairy cattle. *J. Anim. Sci*. 84E Supp. Abstract T150.
- 2006 Lingenfelter, B. M., R. A. Dailey, M. W. Vernon, D. H. Poole, **J. D. Rhinehart** and J. Yao. Down-regulation of transcription and translation factors in granulosa cells from persistent follicles. *Second International Symposium on Animal Functional Genomics*. P9.
- 2003 **Rhinehart, J. D.**, E .S. Vanzant, J. D. Bailey, A. M. Arnett, E. Myers, K. K. Schillo, and L. H. Anderson. Effects of fat supplementation on reproductive parameters of beef heifers fed endophyte-infected fescue seed. *J. Anim. Sci*. 81(Suppl. 2):265.
- 2002 **Rhinehart, J. D.**, A. M. Arnett, R. B. Hightshoe, and L. H. Anderson. Comparison of the efficiency of estradiol 17β, estradiol benzoate, and estradiol cypionate in stimulating atresia of dominant follicles in beef heifers. *J. Anim. Sci*. 80(Suppl. 1):538.
- 2002 Arnett, A. M., **J. D. Rhinehart**, J. D. Bailey, R. B. Hightshoe, and L. H. Anderson. Administration of gonadotropin-releasing hormone (GnRH) on d 5 or 6 of the estrous cycle alters follicle dynamics and increases pregnancy rates in beef cattle. *J. Anim. Sci*. 80 (Suppl. 1):534.
- 2002 Bailey, J. D., **J. D. Rhinehart**, L. H. Anderson, and K. K. Schillo. Repeated exposure to novel females enhances sexual behavior of bulls. *J. Anim. Sci*. 80(Suppl. 1):802.

- 2001 **Rhinehart, J. D.**, J. W. Wyles, and L. H. Anderson. Influence of estrus synchronization on reproductive performance of cows exposed to natural service. *J. Anim. Sci.* 79 (Suppl. 1):1844.

### *Popular Press*

More than **135** single or primary author popular press articles written for publication in the Tennessee or Mississippi Cattle Business Magazine (official publications of those states' Cattlemen's Associations). Many of these articles can be accessed on the UT Beef & Forage Center website. They are occasionally republished in national beef industry press outlets such as Beef Magazine, Drovers, High Plains Journal, Cattle Today, Feedlot Magazine, and others.

### *Electronic Media*

#### **UT Beef & Forage Center Facebook Page** – *Administrator*

- <https://www.facebook.com/UTBFC>
- [Video playlist link](#)

#### **Video Communication Examples**

- [Cattle AI Technology](#) – Produced by UT Marketing & Communications to spotlight a producer demonstration project
- [Heat Stress in Beef Cattle](#) – Produced by UT Beef & Forage Center to communicate the importance of management during high ambient temperature and humidity
- [Fall 2020 Master Beef Producer Webinars](#) – Posted recordings of webinars for access by UT Extension Agents and producers
- [UT Bull Sale Preview](#) – Preview and auction videos for the Bull Development & Evaluation program

### **GRANTS & CONTRACTS**

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2024	\$1,637,790	Schrick, F.N.; <b>J.D. Rhinehart</b> , K. Mason, L.G. Strickland, J. Shanks, E. Eckelkamp, J. Tsruda, L. Duncan, K. Ferguson and G.T. Tabler. Provision of Educational Opportunities for producers in Tennessee. <i>Sponsor: Tennessee Department of Agriculture</i>
2024	\$300,000	Gan, H.; L.G. Schneider, R. Burns and <b>J.D. Rhinehart</b> . Computer vision characterization of respiration as an indicator of cattle health. <i>Sponsor: USDA-NIFA</i>
2024	\$20,000	Rowan, T.; F.N. Schrick, <b>J.D. Rhinehart</b> , K. Mason and S.M. Zoca. 2024 Beef Improvement Federation Annual Symposium Conference. <i>Sponsor: USDA-NIFA</i>
2020	\$58,160	McLean K.; <b>J.D. Rhinehart</b> , P. Myer, L. Schneider, C. Boyer and R. Burns. Utilization of near real time bodyweight monitoring to improve beef cattle reproduction, health, and performance.

*Sponsor: C-Lock, Inc*

- 2020 \$15,050 **Rhinehart, J.D.** Re-synchronization of estrus for a second fixed-time artificial insemination.  
*Sponsor: Zoetis Small Grant Program*
- 2020 \$27,724 Okafor, S.; B. Whitlock, J. Beever, R. Trout Fryxell, K. DeLong, L. Strickland and **J.D. Rhinehart**. Occurrence and costs of bovine anaplasmosis and theileriosis to TN beef producers and targeted measures to prevent spread.  
*Sponsor: Tennessee Beef Promotion Board*
- 2020 \$75,000 **Rhinehart, J.D.** and G.E. Bates. USRSB Cow-Calf Metric Validation.  
*Sponsor: Golden State Foods & Nestlé via U.S. Roundtable for Sustainable Beef*
- 2020 \$27,500 Edwards, J.L.; **J.D. Rhinehart**, K. McLean, S. Moorey and D. Mathew. Acquisition of Computer Assisted Sperm Analysis (CASA) System.  
*Sponsor: UT AgResearch Equipment Grant*
- 2020 \$65,328 McLean K.; **J.D. Rhinehart**, R. Burns, L. Schneider, P. Myer, C. Boyer, R. Oakes and H. Gan. Utilization of precision feeding to improve beef cattle development, reproduction, health, and performance via C-Lock Smartfeeder equipment.  
*Sponsor: UT AgResearch Equipment Grant*
- 2019 \$1,086,000 Schrick, F.N.; M. Buschermohle and **J.D. Rhinehart**. Tennessee Master Beef Producer Program Funding  
Five year contract with the Tennessee Department of Agriculture to support UT Animal Science educational programs used as prerequisites to eligibility for beef cattle producer cost share grants.  
*Sponsor: Tennessee Department of Agriculture*
- 2019 \$29,000 **Rhinehart, J.D.** Three-year agreement to provide equipment and software license for remote cattle monitoring research.  
*Sponsor: CowManager BV*
- 2016 \$53,277 **J.D. Rhinehart**, J.M. Smith, K.G. Pohler, F.N. Schrick. Bayer Animal Health Training in Beef Cattle Production.  
*Sponsor: Bayer HealthCare, Animal Health.*
- 2016 \$6,500 Smith, J.M. and **J.D. Rhinehart**. Enhancing sire fertility and end product quality of Tennessee beef cattle through health monitoring technology.  
*Sponsor: Tennessee Beef Promotion Board*

Rhinehart, J.D. – CV

- 2016 \$19,956 Pohler, K.; **J.D. Rhinehart**, J.L. Edwards. Pregnancy Associated Glycoproteins (PAGs) as Markers of Sire Fertility.  
*Sponsor: Select Sires, Inc.*
- 2015 \$4,899,902 Walker F.; J.D. Rhinehart, S. Hawkins, B. English, D. Tyler, M. Buschermohle, C. Clark, B. Leib, L. Steckel, D. Lambert, L. Lambert, A. Griffith. C. Boyer. Increasing the Resilience of Agricultural Production in the Tennessee and Cumberland River Basins through More Efficient Water Resource Use.  
*Sponsor: USDA – AFRI*
- 2015 \$3,600 Rhinehart, J.D. Ongoing donation of estrus detection devices to aid in research and reproductive management in UT AgResearch beef cattle herds.  
*Sponsor: Estrotec, Inc.*
- 2015 \$23,982 Mulliniks, J.T.; **J.D. Rhinehart**, F. Walker. Effect of Biochar on Forage Digestibility, Methane Production, and Methanogens.  
*Sponsor: Proton Power, Incorporated*
- 2015 \$243,465 Thompson, K.T. and **J.D. Rhinehart**. Grant from the Tennessee Department of Agriculture to fund the construction of the Tennessee Beef Heifer Development program facilities.  
*Sponsor: Tennessee Department of Agriculture*
- 2015 \$125,000 Thompson, K.T. and **J.D. Rhinehart**. Gift to fund installation of animal handling facilities at the Tennessee Heifer Development Program facility.  
*Sponsor: Tennessee Farmers Cooperative*
- 2015 \$5,788 **Rhinehart, J.D.** Gift to fund the printing of the 2015 Tennessee Integrated Resource Management Calendar.  
*Sponsor: Tennessee Livestock Network*
- 2014 \$1,086,000 Schrick, F.N.; M. Buschermohle and **J.D. Rhinehart**. Tennessee Master Beef Producer Program Funding  
Contract with the Tennessee Department of Agriculture to support UT Animal Science educational programs used as prerequisites to eligibility for beef cattle producer cost share grants.  
*Sponsor: Tennessee Department of Agriculture*
- 2014 \$339,584 Oakes, R.; **J.D. Rhinehart**, G.E. Bates, N. Eash, P. Keyser, C. Boyer, J.T. Mulliniks. Demonstrating cost-effective, low-input grazing management systems using stockpiled native forages.  
*Sponsor: USDA - NRCS - CIG*
- 2013 \$60,844 **Rhinehart, J.D.** and J.T. Mulliniks. Intake and in-field stability of monensin-containing Mintrate XL 20® pressed tub.  
*Sponsor: ADM Alliance Nutrition Inc.*

Rhinehart, J.D. – CV

- 2013 \$398,714 **Rhinehart, J.D.;** J. Waller, G.E. Bates, P. Keyser, A. Ashworth and C. Boyer. Coping with drought in beef cattle production: Long-term innovation through optimal warm-season forage systems.  
*Sponsor: USDA - NRCS - CIG*
- 2013 \$50,000 Hawkins, S.; B. McIntosh, F. Walker, **J.D. Rhinehart** and G.E. Bates. Continuation of the Horse Farm Management and Water Quality Improvement Project.  
*Sponsor: Tennessee Department of Agriculture*
- 2013 \$105,000 Thompson, K.T. and J.D. Rhinehart. Facilities construction for the University of Tennessee Bovine Reproductive Training program.  
*Sponsor: Select Sires, Inc.*
- 2012 \$90,000 Holland, R.; **J.D. Rhinehart**, A. Rhea, H.D. Loveday, J. Campbell, K. Jensen, M. Leffew, R. Norman, M. Velandia and W. Pepper. Enhancing Value-Added Beef Opportunities: Focusing on Market-based Opportunities.  
*Sponsor: USDA - Agricultural Marketing Service*
- 2012 \$44,918 Leffew, M.; R. Holland, **J.D. Rhinehart**, H.D. Loveday and W. Pepper. Risk Management Education for Tennessee Value-Added Beef Producers.  
*Sponsor: Southern Risk Management Education Center*
- 2012 \$100,000 Hawkins, S.; B. McIntosh, F. Walker, **J.D. Rhinehart**, F. Hopkins and G.E. Bates. Horse Farm Management and Water Quality Improvement Project.  
*Sponsor: Tennessee Department of Agriculture*
- 2011 \$20,001 Holland, R.; M. Leffew, **J.D. Rhinehart**. Discovering and Documenting Value-Added Beef Marketing and Regulatory Issues Through Farm Demonstration Collaborations.  
*Sponsor: Tennessee Department of Agriculture*
- 2011 \$23,859 **Rhinehart, J.D.** Gift to fund purchase and installment of the CowManager data tracking ear tag system at the Tennessee Beef Heifer Development Program.  
*Sponsor: Tennessee Livestock Network*
- 2011 \$5,988 **Rhinehart, J.D.** Supplemental phosphorus and vitamin B12 for reduction of shipping stress in feeder cattle and improvement of fertility to artificial insemination in cows and heifers.  
*Sponsor: Bayer Animal Health*
- 2010 \$10,000 Walker, F.; B. McIntosh, S. Hawkins, J. Buchanan and **J.D. Rhinehart**. Demonstration of On-Farm Large Animal Mortality Disposal.  
*Sponsor: Tennessee Department of Agriculture*

Rhinehart, J.D. – CV

2010	\$180,000	<b>Rhinehart, J.D.;</b> K.W. Thompson, and J.W. Hitch. Select Sires, Inc. Ongoing Young Sire testing in UT AgResearch cattle herds. <i>Sponsor: Select Sires, Inc.</i>
2010	\$7,250	<b>Rhinehart, J.D.;</b> A.M Fisher, and F.N. Schrick. Donation of gender sorted semen to investigate the fertility of gender sorted semen in a fixed time artificial insemination protocol. <i>Sponsor: Select Sires Inc.</i>
2010	\$4,000	<b>Rhinehart, J.D.</b> Investigating the performance of stocker cattle fed ensiled fescue. <i>Sponsor: Mid-South Stocker Conference Assoc.</i>
2009	\$30,000	Parish, J.A. and <b>J.D. Rhinehart.</b> Animal Identification Program Funding from the Mississippi Board of Animal Health. <i>Sponsor: Mississippi Department of Agriculture</i>
2008	\$37,000	Parish, J.A. and <b>J.D. Rhinehart.</b> Animal Identification Program Funding from the Mississippi Board of Animal Health. <i>Sponsor: Mississippi Department of Agriculture</i>

***Fee-Based Revenue***

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2015	\$652,800	<b>Rhinehart, J.D.</b> and K.W. Thompson. Tennessee Beef Heifer Development Program. <i>Ongoing educational and demonstration program delivered through fee-based custom beef heifer development.</i>
2013	\$187,400	<b>Rhinehart, J.D.</b> and K.W. Thompson. Bovine Reproductive Training Program <i>Ongoing fee-based certification trainings in bovine artificial insemination and reproductive ultrasound.</i>

**EXTENSION PROGRAM LEADERSHIP**

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Tennessee Beef Heifer Development Program – *Coordinator 2015-2022*

- Statewide service, demonstration and educational program designed to promote repopulation of the beef herd through custom heifer development
- 786 heifers developed as co-coordinator

Tennessee Master Beef Producer – *Coordinator 2013-2022*

- Statewide educational program, delivered through UT Extension County Agents, offering seven rigorous training sessions on the science of beef cattle production
- 18,141 certifications as coordinator

Bovine Reproductive Training Program – *Co-Coordinator 2013-2022*

- Fee-based, two-day certification trainings in bovine artificial insemination (4 to 5 per year) and reproductive ultrasound (n = 1 or 2 per year)
- 378 certifications as co-coordinator

Rhinehart, J.D. – CV

Tennessee Beef Quality Assurance – *Co-coordinator 2015-2022, coordinator 2011-2014*

- Curriculum development and administration for statewide, single-session certification training on the basics of providing a safe and wholesome beef product to consumers.
- 19,678 certifications as co-coordinator and coordinator

Beef Cattle Hot Topics Webinar - *Team member 2018-2022, coordinator 2013-2017*

- Monthly (January through October) statewide webinar in-service training for UT Extension County Agents
- 3,154 attendees in 80 sessions as co-coordinator and coordinator

UT Extension In-Service Training – *Team Member 2018-2022, coordinator 2011-2017*

- In-person in-service training for livestock production information and UT Animal Science Extension program delivery
- 790 attendees in 35 sessions as team member and coordinator

## **TEACHING**

### *Instructor*

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Univ. of Tennessee	ANSC 515 – Beef Extension Experience; 2018-current ANSC 500 – Thesis; 2013-current ANSC 481 – Beef Cattle Management; 2018-current
West Virginia Univ.	AVS 293A - Animal Reproduction Laboratory, 2006 AVS 293B - Applied Animal Reproduction, 2005-2006 SURE - Summer Undergraduate Research Experience, 2005 AVS 497 - Undergraduate Research, 2005-2006

### *Guest Lecturer*

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Univ. of Tennessee	<a href="#">ANSC 420</a> – Advanced Reproductive Techniques; 2010-current
UT Martin	ANSC 110 – Introduction to Animal Science; 2013-2017 ANSC 119 – Introduction to Animal Science Lab; 2013-2017 ANSC 372 – Applied Animal Reproduction; 2013-2016
MS State Univ.	ADS 4613 – Physiology of Reproduction; 2007-2009 CVM 5864 – Beef Production Medicine; 2008-2009 ADS 1114 – Animal Science; 2007-2009 ADS 4412 – Managing Livestock Sales; 2007-2009)
West Virginia Univ.	ANPH 301 – Introduction to Animal Physiology; 2006 ANPH 424 – Physiology of Reproduction; 2006 AVS 251 – Principles of Animal Science; 2005-2006 ANPR 356 – Small Ruminant Production; 2006 ANPR 341 – Beef Production; 2006
Univ. of Kentucky	ASC 462G - Artificial Insemination & Fertility; 2002

### *Teaching Assistant*

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Univ. of Kentucky	ASC 406 – Beef Science; 2002 ASC 280 – Farm Animal Management Practices; 1998
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**GRADUATE STUDENT MENTORSHIP**

<b>Student</b>	<b>Role</b>	<b>Degree</b>	<b>University</b>	<b>Completion</b>
Sawyer Main	Comm. Member	M.S.	UTK	2023
Christian Dalton	Comm. Member	M.S.	UTK	2023
Courtne Carter	Chair	M.S.	UTK	2022
Connor Biehler	Chair	M.S.	UTK	2020
Landon Marks	Comm. Member	Ph.D.	Auburn	2020
Jarret Proctor	Comm. Member	M.S.	UTK	2019
Savannah Speckhart	Comm. Member	M.S.	UTK	2019
Sierra Lockwood	Co-Chair	Ph.D.	UTK	2018
Felipe Guirado Dantas	Comm. Member	M.S.	UTK	2018
Katelynn Zechiel	Chair	M.S.	UTK	2017
Sarah Orr	Comm. Member	M.S.	UTK	2015
Sarah Edwards	Comm. Member	M.S.	UTK	2015
Sierra Lockwood	Comm. Member	M.S.	UTK	2014
Melissa Edwards	Comm. Member	M.S.	UTK	2014
Autumn Stewart	Comm. Member	M.S.	UTK	2013
William Mayfield	Comm. Member	M.S.	UTK	2012
Jaime Curbelo	Comm. Member	Ph.D.	MSU	2011
Joseph Benversie	Comm. Member	M.S.	MSU	2011
John David Johnson	Chair	M.S.	MSU	2010

**INTERNATIONAL SERVICE****2008 - University of Trinidad and Tobago**

- 2022
- Maintain an ongoing relationship through Dr. Marlon Knights, consulting on research projects to investigate livestock reproductive management in tropical climates
  - **Guest lecture in undergraduate courses** and facilitate bovine artificial insemination and embryo transfer training for veterinarians, private producers and health officials from five West-Indian islands

**2010 - Trinidad and Tobago Ministry of Agriculture**

- 2022
- Provide consultation on animal agriculture policy
  - Develop plans for genetic advancement via importation of cryopreserved semen and embryos

**2008 - Five Island Farms; St. John's, Antigua**

- 2010
- Consult on reproductive management and importation of genetics through cryopreserved semen and embryos
  - Performed the first livestock embryo transfer procedures in the country of Antigua and Barbuda in 2008

**2009 Select Sires South American Distributors**

Presented educational material at conferences and field days hosted by Semeia (Brazilian distributor) and Selecta (Uruguayan distributor). Porto Alegre, Brazil and Montevideo, Uruguay. June 9-17, 2009

**HONORS & AWARDS**

- 2024 **Beef Improvement Federation Continuing Service Award**  
Award winners have made major contributions to the BIF organization. This includes serving on the board of directors, speaking at BIF conventions, working on BIF guidelines and other behind-the-scenes activities.
- 2023 **Tennessee Cattlemen’s Association President’s Award**  
Selected by the president each year to recognize an individual who has supported the association’s mission and activities, substantially impacting their growth and influence.
- 2021 **Charles and Patricia Goan Excellence in Customer Service Award**  
Established by Dean Emeritus Charles Goan and his wife, Pat, recognizes Extension employees who complete or aid in completing exemplary work to further Extension priorities and provide or aid in providing Extension customers with excellent service, knowledge, and information as requested.
- 2018 **UTK Success in Multidisciplinary Research**  
Given to a team of faculty members in more than one academic college who have succeeded in gaining major external resources and recognition for multidisciplinary research.
- 2016 **National Association of County Agricultural Agents Achievement Award**  
Awarded to Agents and Specialists with less than 10 years of service in Cooperative Extension Service who have exhibited excellence in the field of professional Extension.
- 2015 **Gamma Sigma Delta Extension Award of Merit**  
Awarded to individuals who have made distinct contributions to agriculture or related sciences through administration, Extension, teaching, or research.
- 2015 **J.E. Moss Achievement Award - UT Institute of Agriculture.**  
Recognizes excellent achievement in teaching, research and Extension for the Institute of Agriculture.
- 2014 **Buford E. Ellington Distinguished Faculty Award - UT Institute of Agriculture**  
In recognition of excellence in teaching, research or outreach - less than 10 years.
- 2014 **TAAA&S Early Career Award - UT Extension**  
Awarded annually, based on member vote, by the Tennessee Association of Agricultural Agents & Specialists to one county level and one *non-county level* member from each region.
- 2012 **Dutch & Marilee Cavender Publication Award - UT Institute of Agriculture**  
Award was awarded to a team for the “Animal Mortality Series”. Authors: Forbes Walker (Team Lead), Shawn Hawkins, Fred Hopkins, Bridgett McIntosh, Justin Rhinehart and Ricky Skillington.
- 2012 **TAAA&S Agriculture Agent or Specialist of the Year - UT Ext. Central Region**
- 2011 **TAAA&S Early Career Award - UT Extension Central Region**

Rhinehart, J.D. – CV

Awarded annually, based on member vote, by the Tennessee Association of Agricultural Agents & Specialists to one county level and one *non-county level* member from each region.

## **DISCIPLINARY SERVICE**

### **LEAD21**

Alumna - Class 15; 2019

### **American Society of Animal Science**

President of the Southern Section 2021

President-Elect of the Southern Section 2020

Secretary-Treasurer & Program Chair of the Southern Section 2019

Secretary-Treasurer Elect of the Southern Section 2018

Southern Section Extension Committee Chair 2012

Southern Section Extension Committee Secretary 2011

Southern Section Extension Committee Secretary-Elect 2010

Journal Referee 2007-2022

Member since 2001

### **Mid-South Beef Stocker Association**

President 2021

Vice-President & Secretary 2017

Co-coordinator of the Mid-South Stocker Conference

### **Tennessee Association of Agriculture Agents & Specialists**

Public Relations & Ag Issues Committee Chair since 2016-2022

Extension Development Council beginning in 2011-2015

Member since 2010

### **USDA-NIMSS SERA041: Beef Cattle Production Utilizing Forages in the Southeast**

Project Rewrite Committee member 2015

Member 2012-2022

### **USDA-NIMSS SCC072: Enhancing Reproductive Efficiency in Cattle**

President 2011

Member 2000-2011

## **PROFESSIONAL SERVICE**

### **Tennessee Cattlemen's Association.**

Board of Directors Ex-Officio member since 2011-2022

Convention Planning Committee member since 2011-2022

Member since 2010

### **Tennessee Department of Agriculture**

TN Ag Enhancement Program Advisory Committee member since 2015-2021

TN Ag Enhancement Program Genetics Committee member since 2013-2021

Animal Health Advisory Board member beginning in 2013-2018

### **Tennessee Farm Bureau Federation**

Member since 2010

Periodically provide the leadership team with information concerning beef cattle production issues as they relate to state and national policy

Attend annual Policy Development Meetings to provide commodity-specific consultation as needed

Rhinehart, J.D. – CV

**National Cattlemen’s Beef Association**

Beef Quality Assurance Committee beginning in 2010-2015

Member since 2007

**Tennessee Forage and Grasslands Council.**

Board member since 2013-2021

**Tennessee Livestock Producers**

Regularly provide consultation to enhance their beef cattle genetics program

Attend annual cooperative marketing meetings to provide input as needed

**PUBLIC SERVICE**

**Maury County Chamber & Economic Alliance**

Agribusiness Committee Chair since 2016-2020

Generation Maury Planning Committee member 2014-2016

**Maury Regional Health System**

Advisory Board member 2019-2024