Dustin L. Pendell

November 2026

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EXPERIENCE

July 2018–Present	Professor, Department of Agricultural Economics, Kansas State University
June 2023–Present	Director, Collaborating Centre for the Economics of Animal Health – Americas Region
July 2015–June 2018	Associate Professor, Department of Agricultural Economics, Kansas State University
July 2012–June 2015	Associate Professor, Department of Agricultural and Resource Economics, Colorado State University
January–June 2013	Adjunct Associate Professor, School of Economic Sciences, Washington State University
August–December 2012	Visiting Faculty, Business Economics Group, Wageningen University, Wageningen, Netherlands
October 2006–June 2012	Assistant Professor, Department of Agricultural and Resource Economics, Colorado State University

EDUCATION

2006	Ph.D.	Agricultural Economics, Kansas State University
2002	M.S.	Agribusiness Economics, Southern Illinois University, Carbondale
2000	B.S.	Agribusiness and Agriculture (Specialization in Agronomy Industry Management), *Cum Laude*, Illinois State University

LEADERSHIP EXPERIENCE

Director, World Organisation of Animal Health's Collaborating Centre for the Economics of Animal Health – Americas Region, 2023 – Current

Chair, College Committee on Planning, Kansas State Univ., 2024 – 2025

Past-President, President, President-elect, Western Agricultural Economics Association, 2023 – 2026

LEAD21 training, Class 17, 2021 – 2022

Faculty Leadership Team, Beef Cattle Institute, 2017 – Current

Treasurer, International Society of Social Science and Econ. of Animal Health, 2022 – Current

Executive Board, International Society of Social Science and Econ. of Animal Health, 2017 – Current

Director of Graduate Studies, Kansas State Univ., 2018 – 2022

Director, Western Agricultural Economics Association, 2013 – 2016

Chair, Food and Ag. Marketing Policy section – Agricultural and Applied Econ. Assoc., 2015

Chair of Graduate Program, Colorado State Univ., 2013 – 2015

Internal Advisory Board member, Animal Population Health Institute, 2011 – 2015

AWARDS & HONORS

College of Applied Sci. and Tech. Academy of Achievement inductee, Illinois State Univ., 2016

College of Agricultural Sciences Team Research Award, Colorado State Univ., 2015

College of Agricultural Sciences Outstanding Research Award Colorado State Univ., 2014

Gamma Sigma Delta, 2004

PUBLICATIONS

Peer-Reviewed Journal Articles ([a] after name denotes collaborations initiated with students during their graduate programs)

1) Kim, Y.[a], T. Xia, and **D.L. Pendell**. "Buffering Supply Shocks in Successive Oligopoly: Market Power and Welfare Implications." Forthcoming in *Journal of Agricultural and Resource Economics*.

2) Shakil, G., **D.L. Pendell**, J.M. Thompson, and T.L. Marsh. "The role of vaccination in managing HPAI in the U.S. turkey market." *Scientific and Technical Review* 45(2026):3785. https://doi.org/10.20506/str.45.3785

3) Day, M.E.[a], **D.L. Pendell**, P.A. Lancaster, and F.J. Abello. "Factors Associated with Adoption of Grazing Management Plans and Management Intensive Grazing Patterns on U.S. Cow-Calf Operations." *Sustainability* 18(2026):5999. https://doi.org/10.3390/su18125999

4) de Menezes, T.C.[a], A.M. Countryman, **D.L. Pendell**, J. Rushton, J. Tickel, and H. Simmons. "Potential Economy-Wide Impacts of an African Swine Fever Outbreak in the United States." *Frontiers in Veterinary Science section Veterinary Epidemiology and Economics* 13(2026). https://doi.org/10.3389/fvets.2026.1752899

5) Shakil, G., T. de Mendez[a], A. Countryman, **D.L. Pendell**, and T.L. Marsh. "Animal Health Systems in a Limited Resource Environment of Ethiopia". *Choices* 2026. DOI: 10.22004/ag.econ.370416

6) Hagerman, A., J. Thompson, A.M. Countryman, **D.L. Pendell**, and T. Marsh. "Lessons Learned in U.S. Animal Disease Surveillance for Commercial and Smallholder Systems from 2015 to 2022." *Choices* 2026. DOI: 10.22004/ag.econ.370413

7) Chen, N.[a], **D.L. Pendell**, and C. Chang. "Price Transmission and Long-Term Effects of Avian Influenza on Taiwan's Egg Market." *Preventative Veterinary Medicine* 247(2026). https://doi.org/10.1016/j.prevetmed.2025.106753

8) de Mendez, T.C.[a], A.M. Countryman, and **D.L. Pendell**. "Livestock Tango: U.S. and Latin America dance together, but who will lead?" *Applied Economic Perspectives and Policy* (2025). https://doi.org/10.1002/aepp.70047

9) Li[a], D., X. Zhang[a], M.D. Apley, J.T. Gebhardt, L. Karriker, J.F. Connor, C. Bromfield, B. Lubbers, H. Kittana, **D. Pendell**, R. Madera, N. Muro, A. Craig, B. Shenkenberg, Y. Li, L. Wang, and J. Shi. "Viral vaccines as an alternative to antimicrobials: A perspective from swine veterinarians on challenges, opportunities, and future directions." *Pathogens* 14(2025), 1259. https://doi.org/10.3390/pathogens14121259

10) Zhang, X.[a], D. Li[a], M.D. Apley, L. Karriker, J.F. Connor, C. Bromfield, J.T. Gebhardt, B. Lubbers, H. Kittana, **D. Pendell**, R. Madera, N. Muro, A. Craig, B. Shenkenberg, Y. Li, L. Wang, and J. Shi. "Challenges and Opportunities of Bacterial Vaccines as Alternatives to Antimicrobials in Swine Health Management: Insights from U.S. Veterinarians." *Pathogens* 14(2025), 1113. https://doi.org/10.3390/pathogens14111113

11) Shakil, G., **D.L. Pendell**, J. Rushton, T.L. Marsh. "Economic Burden of Livestock Diseases: A Vertically Integrated Partial Equilibrium Livestock Model." *Agricultural Economics* 57(2025), e70062. https://doi.org/10.1111/agec.70062

12) Horton, L.[a], **D.L. Pend**ell, and D. Renter. "Economic analysis of randomized controlled trial data: a framework and feedlot cattle case study." *Journal of Animal Science* 103(2025) https://doi.org/10.1093/jas/skaf105

13) Michel, K., N.M. Ioerger, A.M. Ake, S.M. Hettenbach, C. Olds, **D.L. Pendell**, J. Stack, S. Higgs, and D.L. Vanlandingham. 2025. "Understanding the Burden of Agriculturally Significant Vector-Borne and Parasitic Diseases in Kansas." *Vector-Borne and Zoonotic Diseases* 25(2025), 429-443. DOI: 10.1089/vbz.2025.0023

14) Day, M.E.[a], **D.L. Pendell**, B.J. White, P.A. Lancaster, and R. Larson. "Economic outcomes associated with acute interstitial pneumonia in Central U.S. High Plains feedyards." *Translational Animal Science* 9(2025) https://doi.org/10.1093/tas/txaf091.

15) Heinen, L.[a], R. Larson, **D.L. Pendell**, D. Kopp[a], B.J. White. "Predictive Models to Determine Best Strategy for Metaphylaxis Application in Cattle at Arrival to a Feedyard." *Preventive Veterinary Medicine* 242(2025) https://doi.org/10.1016/j.prevetmed.2025.106572.

16) Countryman., A., T.C. Menezes[a], **D.L. Pendell**, J. Rushton, and T.L. Marsh. "Economic effects of livestock disease burden in Ethiopia: a computable general equilibrium analysis." *PLoS ONE* 19(2024): e0310268. https://doi.org/10.1371/journal.pone.0310268

17) Heinen, L., B.J. White, R.L. Larson, D. Kopp, and **D.L. Pendell**. "Economic impact of mortality prediction by predictive model at first and second treatment for Bovine Respiratory Disease." *American Journal of Veterinary Research* 16(2024): 1-9. https://doi.org/10.2460/ajvr.24.06.0169

18) Campbell, V.L.[a], J.M. Thompson, J.L. Apriesnig, G.T. Tonsor, and **D.L. Pendell**. "Producer Perceptions of U.S. Livestock Indemnity Policy." *Applied Animal Science* 40(2024), 542–548. https://doi.org/10.15232/aas.2024-02543

19) Kopp, D.[a], R.L. Larson, P.A. Lancaster, B.J. White, K.J. Smith, and **D.L. Pendell**. "Determining the economically optimum metaphylactic strategy for cattle cohorts of varied demographic characteristics." *Animals* 14(2024). https://doi.org/10.3390/ani14101423

20) Tang, M., C.K. Aherin[a], **D.L. Pendell**, M.D. Johnson, A. McDonald, and P.A. Lancaster. "Grazing Management Plan Adoption and Objective Prioritization in U.S. Cow-Calf Operations." *Journal of Agricultural and Applied Economics* 56(2024): 310-328. https://doi.org/10.1017/aae.2024.13

21) Thomas, R.[a], M. Myers[a], **D.L. Pendell**, M.R. Taylor, J. Yu, and A. Tian[a]. "Impact of Confined Animal Feeding Operations on Agricultural Land Values." *Journal of the ASFMRA* (2024): 147-161. 10.22004/ag.econ.342907

22) Marsh, T.L., **D.L. Pendell**, P. Schrobback, G. Shakil, and P. Tozer. "Loss of production and animal health costs needed for estimates for the economy level burden." *Scientific and Technical Review* 43(2024): 58-68. https://doi.org/10.20506/rst.43.3518

23) **Pendell**, **D.L.**, J. Romero, E. Benavides, J.L.D Flores, V.S.P Goncalves, T.L. Marsh, C. Meza, and S.H.G. de Miranda. A Collaborating Centre for the Economics of Animal Health in the Americas." *Scientific and Technical Review* 43(2024): 152-158. https://doi.org/10.20506/rst.43.3527

24) Smith, C.L.[a], T.W. Thompson[a], K. Harr[a], M. Goretska, T. Mayer[a], T. Schwartz[a], S.E. Borders[a], K.B. Gehring[a], P. Bass, M. Pfeiffer, **D.L. Pendell**, B. Morgan, D. Griffin, J.W. Savell, J. Scanga, M.N. Nair, and K.Belk. "National Beef Quality Audit – 2022: Phase 1, face-to-face and digital interviews." *Translational Animal Sciences* 8(2024). https://doi.org/10.1093/tas/txae034

25) Horton, L.M., B.E. Depenbusch, T.C. Schroeder, **D.L. Pendell**, M.N. Streeter, J.P. Hutcheson, and D.G. Renter. "Sensitivity analyses of economic factors influencing net returns of beef feedlot heifers administered two implant programs and fed for differing days-on-feed from pooled randomized controlled trials." *Translational Animal Sciences* 8(2024). https://doi.org/10.1093/tas/txae021

26) Schrobback, P., G. Dennis, Y. Li, D. Mayberry, A. Shaw, T. Knight-Jones, T.L. Marsh, **D.L. Pendell**, P.R. Torgerson, W. Gilbert, B. Huntington, K. Raymond, D.A. Stacey, T. Bernardo, M. Bruce, K.M. McIntyre, J. Rushton, and M. Herrero. "Approximating the global economic (market) value of farmed animals." *Global Food Security* 39(2023). https://doi.org/10.1016/j.gfs.2023.100722

27) Kappes, A., T. Toozoneyi[a], G. Shakil, A.F. Railey, K.M. Mcintyre, D. Mayberry, J. Rushton, **D.L. Pendell**, and T.L. Marsh. "Livestock Health and Disease Economics: A Scoping Review of Selected Literature." *Frontiers in Veterinary Science, section Veterinary Epidemiology and Economics* 10(2023). https://doi.org/10.3389/fvets.2023.1168649

28) Day, M.E.[a], M. Tang, P.A. Lancaster, D. Presley, **D.L. Pendell**, W.H. Fick, L. Doro, A. Ahlers, and A. Ricketts. "Simulation of rangeland management strategies on soil health, environmental footprint, and economic impact from grasslands in the Central and Northern Great Plains of the United States." *Sustainability* 15(2023). https://doi.org/10.3390/su151612456

29) Kim, Y., B. Chen, A.M. Featherstone, and **D.L. Pendell**. "Are Efficient and Inefficient Farms Heterogenous? Evidence from Kansas Farms." *Korean Journal of Agricultural Economics Association* 64(2023): 103-115. Link

30) Aherin, D.G., R.L. Weaber, **D.L. Pendell**, J.L. Heier Stamm, and R.L. Larson. "Stochastic, individual animal systems simulation model of beef cow-calf production: development and validation." *Translational Animal Science* (2022). https://doi.org/10.1093/tas/txac155

31) Dixon A.L., Hanthorn C.J., **D.L. Pendell**, N. Cernicchiaro, and D.G. Renter. "Economic assessments from experimental research trials of feedlot cattle health and performance: a scoping review." *Translational Animal Science* 6(2022). https://doi.org/10.1093/tas/txac077

32) Lancaster P.A., D. Presley, W. Fick, **D.L. Pendell**, A. Ahlers, A. Ricketts, and M. Tang. "Net Conversion of Human-Edible Vitamins and Minerals in the U.S. Southern Great Plains Beef Production System." *Animals* 12(2022): 1270. https://doi.org/10.3390/ani12172170

33) Horton, L.M.[a], B.E. Depenbusch, **D.L. Pendell**, and D.G. Renter. "Description of feedlot animals culled for slaughter, revenue received, and associations with reported U.S. beef market prices." *Bovine Practitioner* 55(2021): 65-77. https://doi.org/10.21423/bovine-vol55no1p65-77

34) Campbell, V.[a], J.M. Thompson, J. Apriesnig, **D.L. Pendell**, G.T. Tonsor. "Producer's Willingness-to-Invest in On-Farm Carcass Disposal: A Study on U.S. Poultry." *Journal of Applied Poultry Research* 30(2021). https://doi.org/10.1016/j.japr.2021.100209

35) Tegen, A.[a], **D.L. Pendell**, A. Tolera, A. Mekasha, D. Min, J. Vipham, and A. Mekasha. "Determinants of Sorghum Biomass use for Livestock Feed across Sorghum Growing Agroecological Zones in Ethiopia." *Tropical and Subtropical Agroecosystems* 24(2021). 10.56369/tsaes.3759

36) Huntington, B., T.M. Bernardo, M. Bruce, B. Devleesschauwer, W. Gilbert, A. Havelaar, M. Herrero, T.L. Marsh, S. Mesenhowski, **D.L. Pendell**, D. Pigott, D. Grace, M. Bondad-Reantaso, A.P. Shaw, D. Stacey, M. Stone, P. Torgerson, K. Watkins, B. Wieland, and J. Rushton. "Global Burden of Animal Disease: a novel approach to understanding and managing disease in livestock and aquaculture." *OIE Scientific and Technical Review* 40(2021). doi: 10.20506/rst.40.2.3246

37) Seeger, R.[a], A. Hagerman., K. Johnson, **D.L. Pendell**, and T.L. Marsh. "When Poultry take a Sick Leave: Response Costs for the 2014-2015 Highly Pathogenic Avian Influenza Epidemic in the United States." *Food Policy* July (2021). https://doi.org/10.1016/j.foodpol.2021.102068

38) Rushton, J., Huntington, B., Gilbert, W., Herrero, M., Torgerson, P.R., Shaw, A.P.M., Bruce, M., Marsh, T.L., **Pendell, D.L.**, Bernardo, T.M., Stacey, D., Grace, D., Watkins, K., Bondad-Reantaso M., Devleesschawuer, B., Pigott, D.M., Stone, M., Mesenhowski, S. "The Global Burden of Animal Disease rollout." *The Lancet* February (2021). https://doi.org/10.1016/S0140-6736(21)00189-6

39) Shear, H.E.[a], and **D.L. Pendell**. "Economic Cost of Traceability in U.S. Beef Production." *Frontiers in Animal Science*. December (2020). https://doi.org/10.3389/fanim.2020.552386

40) Thompson, J.M.[a], **D.L. Pendell**, A. Hagerman, and K. Johnson. "International Trade Implications of Highly Pathogenic Poultry Disease Events." *Agricultural and Resource Economics Review 49*(2020): 517-537. doi:10.1017/age.2019.24

41) Webb, M.J.[a], J.J. Block, A.A. Harty, R.R. Salverson, R.F. Daly, J.R. Jaeger, K.R. Underwood, R.N. Funston, **D.L. Pendell**, C.A. Rotz, K.C. Olson, and A.D. Blair. "Cattle and carcass performance, and life cycle assessment of production systems utilizing additive combinations of growth promotant technologies." *Translational Animal Science* November (2020). https://doi.org/10.1093/tas/txaa216

42) Kim, Y.[a], J. Yu., and **D.L. Pendell** "Effects of Crop Insurance on Farm Disinvestments and Exit Decisions." *European Review of Agricultural Economics* 47(2020): 324-347. https://doi.org/10.1093/erae/jbz035

43) Thompson J.M.[a], **D.L. Pendell**, S. Malladi, K. Patyk, J.T. Weaver, and T. Boyer. "Economic Impact of HPAI Outbreak on Midwest Egg Laying Operations." *Journal of Agriculture and Applied Economics* 51(2019): 235-248. doi:10.1017/aae.2018.37

44) Thompson, J.M., C.J.O. Trejo-Pech, and **D.L. Pendell**. "Agribusiness value impacts from highly pathogenic avian influenza." *Agricultural Finance Review*, *79*(2019): 371–385. https://doi.org/10/gf3cw3

45) Coffey, B., **D.L. Pendell**, and G.T. Tonsor. "Contemporaneous and Lagged Causal Relationships Among Negotiated Live Cattle Cash Markets." *Journal of Agricultural and Applied Economics* 51(2019): 182-198. https://doi.org/10.1017/aae.2018.31

46) Mutyasira, V.[a], D. Hoag, and **D.L. Pendell**. "The Adoption of Sustainable Agricultural Practices by Smallholder Farmers in Ethiopian Highlands: An Integrative Approach." *Cogent Food & Agriculture* (2018). https://doi.org/10.1080/23311932.2018.1552439

47) Mutyasira, V.[a], D. Hoag, **D.L. Pendell**, D. Manning, and M. Berhe. "Is Sustainable Intensification Possible? Evidence from Ethiopia" *Sustainability* 10(2018). doi:10.3390/su10114174

48) Mutyasira, V.[a], D. Hoag, **D.L. Pendell**, D. Manning, and M. Berhe. "Assessing the Relative Sustainability of Smallholder Farming Systems in Ethiopian Highlands." *Agricultural Systems* 167(2018):83-91. https://doi.org/10.1016/j.agsy.2018.08.006

49) Thompson, J.M., G.T. Tonsor, **D.L. Pendell**, and W. Preston. "U.S. Feedlot Operator Willingness to Pay for Disposal Capacity to Address Foreign Animal Disease Risk." *Transboundary and Emerging Diseases* 65(2018) https://doi.org/10.1111/tbed.12976

50) Kibler, M.L.[a], and **D.L. Pendell**. "An investigation into equine daily use values and the impacts of equine competitions." *Journal of Equine Veterinary Science* 69(2018):53-58. https://doi.org/10.1016/j.jevs.2018.06.007

51) Dennis, E.J.[a], T.C. Schroeder, D.G. Renter, and **D.L. Pendell**. "Value of Metaphylaxis in U.S. Cattle Industry." *Journal of Agricultural and Resource Economics* 43(2018): 233-250. Link

52) Holderieath, J.J.[a], **D.L. Pendell**, J.C. Hadrich, A. Anderson, C. Slootmaker, E. Harper, and S.A. Shwiff. "Valuing the Absence of Feral Swine in the United States: A Partial Equilibrium Approach." *Crop Protection* 112(2018): 63-66. https://doi.org/10.1016/j.cropro.2018.05.004

53) Kibler, M.L.[a], **D.L. Pendell**, M. Costanigro, and J. Traub-Dargatz. "Equine Daily Use Values and Owner Willingness-To-Pay for Infections Disease Treatment Options." *Equine Veterinary Journal* 50(2018): 498-503. http://dx.doi.org/10.1111/evj.12786

54) Johnson, K.K., and **D.L. Pendell**. "Market Impacts of Reducing the Prevalence of Bovine Respiratory Disease in United States Beef Cattle Feedlots. *Frontiers in Veterinary Science – Veterinary Epidemiology and Economics* (2017). https://doi.org/10.3389/fvets.2017.00189

55) Hasty, J.D.[a], M.M. Pfeifer[a], L.C. Eastwood[a], D.A. Gredell[a], C.L. Gifford[a], J.R. Levey[a], C.M. Cashman[a], D.R. Woerner, J.N. Martin, R.J. Delmore, W.B. Griffin, D.L. VanOverbeke, G.G. Mafi, C.A. Boykin, D.S. Hale, C.R. Kerth, D.B. Griffin, A.N. Arnold, J.W. Savell, **D.L. Pendell**, and K.E. Belk. "National Beef Quality Audit-2016: Phase 1, Face-to-face interviews." *Translational Animal Science* 1(2017)3: 320–332. doi:10.2527/tas2017.0039

56) Marsh, T.L., **D.L. Pendell**, and R. Knippenberg. "Animal health economics: aid to decision-making on animal health interventions – case studies in the USA." *OIE Scientific and Technical Review* 36(2017)1: 137–145. http://dx.doi.org/10.20506/rst.issue.36.1.2604

57) Kessler, B.A.[a], **D.L. Pendell**, and R.M. Enns. "Hedonic prices of yearling bulls: Estimating the value of a pulmonary arterial pressure score." *The Professional Animal Scientist* 33(2017)1:113-119. https://doi.org/10.15232/pas.2016-01503

58) Thompson, J.M.[a], and **D.L. Pendell.** "A Case for Business Continuity: Product Movement during a Highly Pathogenic Avian Influenza Outbreak." *Choices* Quarter 2(2016). LINK

59) **Pendell, D.L.**, J.L. Lusk, T.L. Marsh, K.H. Coble, and S.C. Szmania. "Economic Assessment of Zoonotic Diseases: An Illustrative Study of Rift Valley Fever in the United States." *Transboundary and Emerging Diseases* 63(2016): 203–214. doi: 10.1111/tbed.12246

60) **Pendell, D.L.**, T.L. Marsh, K.H. Coble, J.L. Lusk, and S. Szmania. "Economic Assessment of FMDv Releases from the National Bio and Agro Defense Facility." *PLoS ONE* 10(2015): e0129134. doi:10.1371/journal.pone.0129134

61) Schroeder, T.C., **D.L. Pendell**, M. Sanderson, and S. McReynolds[a]. "Economic Impact of Alternative FMD Emergency Vaccination Strategies in the Midwestern United States." *Journal of Agricultural and Applied Economics* 47(2015): 47-76. http://dx.doi.org/10.1017/aae.2014.5

62) Murphy, R.G.L.[a], S.T. Howard[a], D.R. Woerner, **D.L. Pendell**, C.L. Dixon[a], T.L. Desimone[a], M.D. Green, J.L. Igo[a], J.D. Tatum, and K.E. Belk. "Definition, willingness-to-pay and ranking of quality attributes of pork as defined by importers in Asia and Mexico." *Journal of Animal Science* 93(2015): 433-441. doi:10.2527/jas.2014-8102

63) Wenjing, H.[a], D. Thilmany-McFadden, and **D.L. Pendell**. "Exploring Seasonal Dynamics and the Role of Energy Costs in Regional Apple Markets." *Agricultural and Resource Economics Review* 43(2014)3: 357-372. https://doi.org/10.1017/S1068280500005487

64) **Pendell, D.L.**, G.T. Tonsor, K.C. Dhuyvetter, G.W. Brester, and T.C. Schroeder. "Evolving Beef Export Market Access Requirements for Age and Source Verification." *Food Policy* (2013)43: 332-340. doi:10.1016/j.foodpol.2013.05.013

65) **Pendell, D.L.**, and C. Cho[a]. "Stock Market Reactions to Contagious Animal Disease Outbreaks: An Event Study in Korean Foot-and-Mouth Disease Outbreaks." *Agribusiness: An International Journal* 29(2013): 455-468. doi: 10.1002/agr.21346

66) Igo, J.L.[a], D.L. VanOverbeke, D.R. Woerner, J.D. Tatum, **D.L. Pendell**, L.L. Vedral, G.G. Mafi, M.C. Moore, R.O. McKeith, G.D. Gray, D.B. Griffin, D.S. Hale, J.W. Savell, and K.E. Belk. "Phase I of The National Beef Quality Audit-2011: Quantifying willingness-to-pay, best-worst scaling, and current status of quality characteristics in different beef industry marketing sectors." *Journal of Animal Science* 91(2013)4: 1907-1919. doi:10.2527/jas.2012-5815

67) Mortenson, R.[a], J. Parson, **D.L. Pendell**, and S.D. Haley. "Wheat Variety Selection: An Application of Portfolio Theory in Colorado." *Western Economic Forum* 11(2013)2: 10-21. LINK

68) **Pendell, D.L.**, G.W. Brester, T.C. Schroeder, K.C. Dhuyvetter, and G.T. Tonsor. "Animal Identification and Tracing in the United States." *American Journal of Agricultural Economics* 92(2010)4: 927-940. doi: 10.1093/ajae/aaq037

69) Williams J.R., R.V. Llewelyn, **D.L. Pendell**, A. Schlegel, and T. Dumler. "A Risk Analysis of Converting Conservation Reserve Program Acres to a Wheat-Sorghum-Fallow Rotation." *Agronomy Journal* 102(2010)2: 612-622. doi:10.2134/agronj2009.0142

70) Smith, G.C., **D.L. Pendell**, K.E. Belk, J.D. Tatum, J.N. Sofos, and D.L. Morris. "Opinions of those in Cattle, Swine and Sheep, Harvesting and Rendering Sectors Regarding Aspects of the National Animal Identification System." *The Professional Animal Scientist* 25(2009)6: 641-653. LINK

71) Murphy, R.G.L.[a], **D.L. Pendell**, G.C. Smith. "Lessons from the Canadian Cattle Industry for Developing the National Animal Identification System." *International Food and Agribusiness Management Review* 12(2009)2: 1-18. LINK

72) Williams, J.R., **D.L. Pendell**, R.V. Llewelyn, D.E. Peterson, and R.G. Nelson. "Net Returns to Tillage Systems under Changing Input and Output Market Conditions." *Journal of The American Society of Farm Managers and Rural Appraisers* (2009): 78-93.

73) Smith G.C., **D.L. Pendell**, J.D. Tatum, K.E. Belk and J.N. Sofos. "Post-Slaughter Traceability." *Meat Science* 80(2008)1: 66-74. doi:10.1016/j.meatsci.2008.05.024

74) Murphy, R.G.L.[a], **D.L. Pendell**, D.L. Morris, J.A. Scanga, K.E. Belk, and G.C. Smith. "A Review of Animal Identification Systems in North America." *The Professional Animal Scientist* 24(2008)4:277-286. LINK

75) Bowling, M.B.[a], **D.L. Pendell**, D.L. Morris, Y. Yoon[a], K. Katoh[a], K.E. Belk, and G.C. Smith. "Identification and Traceability of Cattle in Selected Countries Outside North America." *The Professional Animal Scientist* 24(2008)4: 287-294. LINK

76) Meisinger, J.L.[a], **D.L. Pendell**, D.L. Morris, K.E. Belk, and G.C. Smith. "Review of Swine Traceability Systems in Selected Countries Outside North America." *The Professional Animal Scientist* 24(2008)4: 295-301. LINK

77) Bass, P.D.[a], **D.L. Pendell**, D.L. Morris, J.A. Scanga, K.E. Belk, T.E. Field, J.N. Sofos, J.D. Tatum, and G.C. Smith. "Review of Sheep Traceability Systems in Selected Countries Outside of North America." *The Professional Animal Scientist* 24(2008)4: 302-307. LINK

78) **Pendell, D.L.**, and A.M. Featherstone. "Agricultural Assets in an Optimal Investment Portfolio." *Agricultural Finance Review* 67(2007)2: 259-278. http://dx.doi.org/10.1108/00214660780001208

79) **Pendell, D.L.**, J.C. Leatherman, T.C. Schroeder, and G.S. Alward. "The Economic Impacts of a Foot-And-Mouth Disease Outbreak: A Regional Analysis." *Journal of Agricultural and Applied Economics* 'Special Issue' 39(2007): 13-33. http://dx.doi.org/10.1017/S1074070800028911

80) **Pendell, D.L.**, J.R. Williams, S.B. Boyles, C.W. Rice, and R.G. Nelson. "Soil Carbon Sequestration Strategies with Alternative Tillage and Nitrogen Sources under Risk." *Review of Agricultural Economics* 29(2007)2: 247-268. doi:10.111/1j. 1467-9353.2007.00341

81) **Pendell, D.L.**, and T.C. Schroeder. "Impact of Mandatory Price Reporting on Fed Cattle Market Integration." *Journal of Agricultural and Resource Economics* 31(2006)3: 568-579. LINK

82) **Pendell, D.L.**, J.R. Williams, D.W. Sweeney, R.G. Nelson, and C.W. Rice. "Economic Feasibility of Carbon Sequestration in Claypan Soil with Alternative Tillage Systems and Nitrogen Sources for Grain Sorghum and Soybean." *Journal of the American Society of Farm Managers and Rural Appraisers* (2006): 90-99.

83) **Pendell, D.L.**, J.R. Williams, C.W. Rice, R.G. Nelson, and S.B. Boyles. "An Economic Feasibility Analysis of Manure Applications and No-Tillage for Soil Carbon Sequestration in Corn Production." *Journal of Environmental Quality* 35(July-August 2006)4: 1364-1373. doi:10.2134/jeq2005.0149

Peer-Reviewed Book Chapters

1) Marsh, T.L., and **D.L. Pendell**. "Economic Foundations for Animal Health Decisions, Interventions, and Investments." *Foundations of Animal Health: Shaping Global Strategies* (2026). CAB International. Foundations of Animal Health Investment | Investing in Animal Health for Sustainable Development (CABI Concise)

2) White, B., **D.L. Pendell**, C. Grund, and K. Langvardt. "Animal and Meat Traceability." *Encyclopedia of Meat Sciences* 3(2023): 737-741. Animal and meat traceability (sciencedirectassets.com)

Extension/Outreach Publications

1) Thomas, R.J.[a], **D.L. Pendell**, M. Taylor, J. Yu, A. Tian[a], and M. Myers[a]. "Confined Animal Feeding Operations and Kansas Land Values." Kansas State University, Department of Agricultural Economics. April 2024.

2) **Pendell, D.L.**, and K.L. Herbel. "Feed Costs: Pasture vs Non-Pasture Costs: An Analysis of 2016-2020 Kansas Farm Management Association Cow Calf Enterprise." Kansas State University, Department of Agricultural Economics. November 2021.

3) **Pendell, D.L.**, and K.L. Herbel. "Differences Between High-, Medium-, and Low-Profit Cow-Calf Producers: An Analysis of 2016-2020 Kansas Farm Management Association Cow-Calf Enterprise." Kansas State University, Department of Agricultural Economics. November 2021.

4) **Pendell, D.L.**, and K.L. Herbel. "Feed Costs: Pasture vs Non-Pasture Costs: An Analysis of 2014-2019 Kansas Farm Management Association Cow Calf Enterprise." Kansas State University, Department of Agricultural Economics. July 2021.

5) **Pendell, D.L.**, and K.L. Herbel. "Differences Between High-, Medium-, and Low-Profit Cow-Calf Producers: An Analysis of 2015-2019 Kansas Farm Management Association Cow-Calf Enterprise." Kansas State University, Department of Agricultural Economics. May 2021.

6) Shear, H.E.[a], C. Kniebel, **D.L. Pendell**, and B. White. "Implementation & Economic Impacts of a Traceability Program on Beef Industry Stakeholders." Kansas State University, Department of Agricultural Economics. December 2019.

7) Bowman, W.[a], **Pendell, D.L.**, and K.L. Herbel. "Differences Between High-, Medium-, and Low-Profit Cow-Calf Producers: An Analysis of 2014-2018 Kansas Farm Management Association Cow-Calf Enterprise." Kansas State University, Department of Agricultural Economics. September 2019.

8) Bowman, W.[a], **Pendell, D.L.**, and K.L. Herbel. "Differences Between High-, Medium-, and Low-Profit Cow-Calf Producers: An Analysis of 2013-2017 Kansas Farm Management Association Cow-Calf Enterprise." Kansas State University, Department of Agricultural Economics. September 2018.

9) Dennis, E.J.[a], T.C. Schroeder, **D.L. Pendell**, and D.G. Renter, and. "Value of Metaphylaxis in U.S. Cattle Industry." Kansas State University, Department of Agricultural Economics. June 2018.

10) Kim, Y.[a], **D.L. Pendell**, and J. Yu. "Effects of Crop Insurance on Farm Survival." Kansas State University, Department of Agricultural Economics. April 2018.

11) **Pendell, D.L.**, and K. Herbel. "Differences Between High-, Medium-, and Low-Profit Cow-Calf Producers: An Analysis of 2012-2016 Kansas Farm Management Association Cow-Calf Enterprise." Kansas State University, Department of Agricultural Economics. December 2016.

12) **Pendell, D.L.**, Y. Kim, and K. Herbel. "Differences Between High-, Medium-, and Low-Profit Cow-Calf Producers: An Analysis of 2011-2015 Kansas Farm Management Association Cow-Calf Enterprise." Kansas State University, Department of Agricultural Economics (Publication: KSU-AgEcon-DP-KH-2016.1). December 2016.

13) **Pendell, D.L.**, and K. Herbel. "Feed Costs: Pasture vs Non Pasture Costs: An Analysis of 2010-2014 Kansas Farm Management Association Cow Calf Enterprise." Kansas State University, Department of Agricultural Economics (Publication: KSU-AgEcon-DP-KH-2015.1). December 2015.

14) **Pendell, D.L.**, Y. Kim, and K. Herbel. "Differences Between High-, Medium-, and Low-Profit Cow-Calf Producers: An Analysis of 2010-2014 Kansas Farm Management Association Cow-Calf Enterprise." Kansas State University, Department of Agricultural Economics (Publication: KSU-AgEcon-DP-YK-KH-2015.1). December 2015.

15) **Pendell, D.L.** "Is Adding Livestock the Solution to Profit Margins: A State and Regional Level Analysis." Kansas State University, Department of Agricultural Economics (Publication: KSU-AgEcon-DP-2015.1). December 2015.

16) **Pendell, D.L.**, and R. Reid. "Sheep Farm Management Guide Spreadsheet." June 2016.

17) **Pendell, D.L.**, S. Johnson, K.C. Dhuyvetter, and L.C. Vogel. "KSU-Bull vs. AI Breeding Costs: Spreadsheet Tool." November 2015.

18) **Pendell, D.L.**, Schroeder, T.C., M. Sanderson, and S. McReynolds[a]. "Economic Impact of Alternative FMD Emergency Vaccination Strategies in the Midwestern United States." Kansas State University, Department of Agricultural Economics (Publication: KSU-AgEcon-DP-TS-2015.1). July 2015.

19) Mortenson, R.[a], **D.L. Pendell**, J. Parsons, and S.D. Haley. "An Evaluation of Colorado State University's Wheat Breeding Program: Economic Impacts on Wheat Yields." In *Economic Development Report* (EDR 12-03), Colorado State University Extension. December 2012.

20) Johnson, K., A. Seitzinger, D. Thilmany, **D.L. Pendell**, and J. Pritchett. "Operator and Operation Characteristics: A Comparison of Low-sales, Medium-sales, and Large Family Sales Farm Operations in the United States." In *Production and Farm Management Report* (PFMR 11-02), Colorado State University Extension. December 2011.

21) **Pendell, D.L.**, K. Johnson, J. Pritchett, D. Thilmany, and A. Seitzinger. "Production Resources and Management: A Comparison of Low-sales, Medium-sales, and Large Family Farm Operations in the United States." In *Production and Farm Management Report* (PFMR 11-03), Colorado State University Extension. December 2011.

22) Pritchett, J., D. Thilmany, **D.L. Pendell**, K. Johnson, and A. Seitzinger. "Demographics, Production Characteristics and Financial Performance Executive Summary: A Comparison of Low-sales, Medium-sales, and Large Family Farm Operations in the United States." In *Production and Farm Management Report* (PFMR 11-01), Colorado State University Extension. December 2011.

23) Thilmany, D., **D.L. Pendell**, K. Johnson, A. Seitzinger, and J. Pritchett. "Profitability Measures and Financial Structure: A Comparison of Low-sales, Medium-sales, and Large Family Farm Operations in the United States." In *Production and Farm Management Report* (PFMR 11-04), Colorado State University Extension. December 2011.

24) **Pendell, D.L.**, G.T. Tonsor, G.W. Brester, K.C. Dhuyvetter, and T.C. Schroeder. "Economic Assessment of Evolving Red Meat Export Market Access Requirements for Traceability of Livestock and Meat." Kansas State University, Department of Agricultural Economics (Publication: AM-GTT-2011.2). September 2011.

25) **Pendell, D.L.** "Animal Diseases and Traceability." *Livestock Links* (CLA newsletter). April 2008.

26) **Pendell, D.L.**, T.C. Schroeder, J.C. Leatherman, and G.S. Alward. "Summary of a Regional Economic Impact of a Hypothetical Foot-And-Mouth Disease Outbreak in Southwest Kansas." In *Livestock and Wildlife Disease Report* (LWDR 07–01), Colorado State University Extension. September 2007.

27) **Pendell, D.L.** and T.C. Schroeder. "Value of animal traceability systems in managing a foot-and-mouth disease outbreak in southwest Kansas." In *Beef Cattle Research*, Report of Progress, Kansas State University Agricultural Experiment Station and Cooperative Extension Service, 2007.

28) **Pendell, D.L.** and A.M. Featherstone. "Kansas Farmland Sales and Characteristics: 1980-2003." MF-2689, Kansas State University Cooperative Extension Service Bulletin, August 2005.

29) Brant M., **D.L. Pendell**, and G.T. Tonsor. "What Do You Think? Participant Survey Results: 2004 K-State Risk and Profit Conference." Kansas State University, Department of Agricultural Economics *Staff Paper No. 05-02*, November 2004. Contribution number 05-100-D.

30) Brant M., P.M. Clark, and **D.L. Pendell**. "What Do You Think? Participant Survey Results: 2003 K-State Risk and Profit Conference." Kansas State University, Department of Agricultural Economics *Staff Paper No. 04-05*, November 2003. Contribution number 04-193-D.

31) **Pendell, D.L.**, W.R. Perry, J.R. Williams, G.A. Barnaby, and B.D. Lubben. "Mathematical Formulas for Calculating Net Returns from Participation in Government Programs, CRP, and Crop Insurance Alternatives." Kansas State University, Department of Agricultural Economics *Staff Paper No. 04-02*, August 2003. Contribution number 04-036-D.

PRESENTATIONS

Invited Presentations ([a] after name denotes collaborations initiated with students during their graduate programs)

Pendell, D.L. "The Role of Vaccination in Managing HPAI in the U.S. Egg Industry." Presented at National Chung Hsing University in Taichung, Taiwan. December 2025.

Pendell, D.L. "Evaluating the Economic Impacts of African Swine Fever on the U.S. Pork Supply Chain." Presented at National Chung Hsing University in Taichung, Taiwan. December 2025.

Gunderson, T., B.J. White, and **D.L. Pendell.** "Factors for success in rural veterinary practice: The challenges and how to overcome them." Presented (by Gunderson, White, and Pendell) at the American Veterinary Medical Association's Economic Forum in Denver, CO on 10/9/2025.

de Menezes, T.C.[a], A.M. Countryman, and **D.L. Pendell**. "Economic Consequences of African Swine Fever: Strengthening U.S. Preparedness and Resilience." Presented (by Countryman) at Agricultural and Applied Economics Association annual meeting in Denver, CO. July 2025.

Tozooneyi, T., **D.L. Pendell**, A. Countryman, J. Rushton, H. Simmons, and J. Tickel. "Evaluating the economic impacts of African swine fever on the US pork supply chain." Presented (by **Pendell)** at the International Society of Veterinary Epidemiology and Economic conference in Sydney, Australia. November 2024.

Chen, N.[a], **D.L. Pendell**, and C.L. Chang. "Egg market reaction to avian influenza outbreaks: an autoregressive distributed lag model approach." Presented (by Chen**)** at the International Society of Veterinary Epidemiology and Economic conference in Sydney, Australia. November 2024.

Pendell, D.L. "A Framework for Estimating the Economic Burden of Animal Diseases". Presented at the Department of Diagnostic Medicine/Pathobiology' Fall Seminar Series at Kansas State University. October 2023.

Pendell, D.L. "Global Burden of Animal Diseases (GBADs) en la region del CVP". Presented at the SEMINARIO TÉCNICO INTERNACIONAL: CVP 20 años: integración y sostenibilidad de la sanidad, producción, seguridad alimentaria y acceso a mercados in Santa Cruz, Bolivia. September 2023.

Pendell, D.L. "A Framework for Estimating the Economic Burden of Animal Diseases". Presented at the Encontro Nacional Da Rede E Pesquisa E Inovacao em Sanidade Animal E Pecuaria Leiteria at the Federal University of Lavras, Brazil. September 2023.

Pendell, D.L. "Impact of Confined Animal Feeding Operations on Agricultural Land Values." University of Sao Paulo. September 2023.

Tozooneyi, T.[a], **D.L. Pendell**, and J. Rushton. "Potential Economic Welfare Impacts of African Swine Fever on the U.S. Hog Supply Chain. Presented (by Tozooneyi) at the Agricultural and Applied Economics Association annual meeting in Washington D.C. July 2023.

Thompson, J., T. Tozooneyi, T.L. Marsh, and **D.L. Pendell**. "Economic Burden of Animal Health: A Case Study of the U.S. Broiler Industry." Presented (by Pendell) at the Western Agricultural Economics Association Annual meeting in Vancouver, British Columbia. July 2023.

M. Tang, C. Aherin, and **D.L. Pendell**. "Grazing Management Plan Adoption and Objective Prioritization in U.S. Cow-Calf Operations." Presented (by Pendell) at the Western Agricultural Economics Association. Whistler, British Columbia, Canada. July 2023.

Day M.B., P.A. Lancaster, **D.L. Pendell**, M. Tang, D. Presley, and W.H. Fick, A. Ahlers, and A. Ricketts. "Economic Impacts and Sustainability of Grazing Beef Cattle in the Great Plains". Presented (by Day) at the Southern Agricultural Economics Association. Tulsa, Oklahoma. February 2023.

Pendell, D.L., A. Kappes, T. Tozooneyi [a], G. Shakil, and T.L. Marsh. "Global Burden of Animal Diseases: Wider Economic Impacts". Livestock Diseases for Data (LD4D) Webinar. September 2022.

Pendell, D.L. "Impact of Confined Animal Feeding Operations on Agricultural Land Values". USDA-Economic Research Service seminar. Virtual. August 2022.

Pendell, D.L., A. Kappes, T. Tozooneyi [a], G. Shakil, and T.L. Marsh. "Global Burden of Animal Diseases: Wider Economic Impacts". International Society of Vet. Epidemiology and Economics. Nova Scotia, Canada. August 2022.

Shear, H.E.[a], **D.L. Pendell**, and R. Nehring. "Comparison of High Plains and Southern Region Cow-Calf Operation Production Efficiency." Presented virtually by Shear at Southern Agriculture and Applied Economics Association annual conference. February 2021.

Shear, H.E.[a], **D.L. Pendell**, and R. Nehring. "Assessing Efficiency of the U.S. Cow-Calf Operations: Kansas." Presented (by Shear) at the Agriculture and Applied Economics Association annual meetings, virtually, August 2020.

Bowman, W.L.[a], **D.L. Pendell**, and B.K. Coffey. "The Impact of Specialization on Farm Financial Performance." Presented (by Bowman) at the Western Agriculture Economics Association annual meetings, virtually, June 2020.

Shear, H.E.[a] and **D.L. Pendell**. "Animal Identification and Disease Traceability in the United States: Market Impacts and Implications." Presented (by Shear) at the Southern Agriculture and Applied Economics Association annual conference in Louisville, Kentucky. February 2020.

Kim, Y.[a], T. Xia and **D.L. Pendell**. "Price Transmission and Supply Shocks: The Role of Upstream and Downstream Market Power." Presented (by Kim) at Agricultural and Applied Economic Association annual meetings, Washington, DC, August 2019.

Kim, Youngjune[a], J.C. Hadrich, and **D.L. Pendell.** "The Effect of Financial Structure and Efficiency on Farm Growth." Presented (by Kim) at Agricultural and Applied Economic Association annual meetings, Washington, DC, August 2018.

Pendell, D.L. "Trade, markets, and biosecurity: lessons for the future." Presented at the Economic Reasoning for Improved Animal Health (ERIAH) workshop: 'From Economic Assessment to Policy Making', Montpellier, France, May 2018.

Thompson, J. and **D.L. Pendell**. "Economic Impacts of Partner Trade Restrictions During an Animal Health Event." Presented (by Thompson) at the Western Agricultural Economics Association annual meetings, Lake Tahoe, NV, July 2017.

Seeger, R.[a], K. Johnson, A. Hagerman, **D.L. Pendell**, T.L. Marsh. "When Poultry Take a Sick Leave: Investigating the Response Costs of the United States Highly Pathogenic Avian Influenza Epidemic." Presented (by Seeger) at Western Agricultural Economic Association annual meetings, Lake Tahoe, NV, July 2017.

Thompson, J., A. Seitzinger, and **D.L. Pendell**. 2017. "Trading Partner and Product Switching During an Animal Health Event." Inaugural International Society for Economics and Social Sciences of Animal Health Meeting, Aviemore, Scotland, March 27-28.

Kim, Y.[a], B. Chen[a], A.M. Featherstone, and **D.L. Pendell.** "Are Efficient Farms and Inefficient Farms Heterogeneous?" Presented (by Kim) at the Southern Agricultural Economics Association annual meetings, Mobile, AL, February 2017.

Kim Y.[a] and **D.L. Pendell**. "How Crop Insurance affects Farm Business Survivability." Presented (by Kim) at Agricultural and Applied Economic Association annual meetings, Boston, MA, August 2016.

Thompson, J.[a] and **D.L. Pendell**. "A System Approach for Three-Dimensional Panel Data to Estimate Poultry Trade Impacts due to Animal Disease Outbreaks." Presented (by Thompson) at Agricultural and Applied Economic Association annual meetings, Boston, MA, August 2016.

Thompson, J., **D.L. Pendell**, S. Malladi, K. Patyk, J.T. Weaver, and T. Boyer. "Economic Impacts of an HPAI Outbreak on Minnesota Egg Laying Operations." National Preparedness and Incident Coordination Center Fireside Fridays, Washington DC, March 2016.

Pendell, D.L., K.K Johnson, C.A. Kopral. "Value of Biosecurity on United States Cow-Calf Operations." Presented (by Pendell) at the International Society for Veterinary Epidemiology and Economics meeting in Yucatan, Mexico, November 2015.

Thompson. J.[a], **D.L. Pendell**, S. Malladi, K. Patyk, J.T. Weaver, and T. Boyer. 2015. "Economic Impacts of an HPAI Outbreak on Minnesota Egg Laying Operations." Presented (by Thompson) at the International Society for Veterinary Epidemiology and Economics meeting in Yucatan, Mexico, November 2015.

Webb, M.J.[a], D.R. Woerner, **D.L. Pendell**, T. Engle, J. Henson, and H. Zerby. "Identifying Consumer Preferences for Different Beef Types Based on Flavor." Presented (by Webb) at the ASMA Reciprocal Meats Conference meeting in Lincoln, NE. June 2015.

Pendell, D.L. "GMO Labeling Legislative Update: The Colorado Experience." Presented at Agricultural and Applied Economic Association annual meetings, Minneapolis, MN, August 2014.

Pendell, D.L., T.C. Schroeder, and M.W. Sanderson. "Continuity of Business for Beef Operations and Feedlots in the Event of an FMD Outbreak." Presented (by Pendell) at Western Agricultural Economic Association annual meetings, Colorado Springs, CO, June 2014.

Mutyasira, V.[a], and **D.L. Pendell**. "Analysis of Efficiency of U.S. Beef Cow-Calf Farms." Presented (by Mutyasira) at Western Agricultural Economic Association annual meetings, Colorado Springs, CO. June 2014.

Larsen, R.[a], and **D.L. Pendell**. "An Analysis of Feedlot Production and Profitability by Altering Days-on-Feed." Presented (by Larsen) at Western Agricultural Economic Association annual meetings, Colorado Springs, CO, June 2014.

Motallebi, M.[a] and **D.L. Pendell**. "Estimating an Almost Ideal Demand System Model for Meats in IRAN." Presented (by Motallebi) at Agricultural and Applied Economic Association annual meetings, Washington, DC, August 2013.

Pendell, D.L. "Site-Specific Risk Assessment for the National Bio and Agro-Defense Facility in Manhattan, KS." Presented at International Society for Veterinary Epidemiology and Economics meeting, Maastricht, Netherlands, August 2012.

Cho, C.[a] and **D.L. Pendell**. "Stock Market Reaction to Animal Disease Outbreaks: An Event Study in Korean Foot-and-Mouth Disease." Presented (by Pendell) at Western Agricultural Economics Association annual meetings, Park City, UT, June 2012.

Kibler, M.[a] and **D.L. Pendell**. "Estimated Efficiency of U.S. Cow-Calf Operations." Presented (by Kibler) at Western Agricultural Economics Association annual meetings, Park City, UT, June 2012.

Pendell, D.L. "Site-Specific Risk Assessment for the National Bio and Agro-Defense Facility in Manhattan, KS." Presented at Western Agricultural Economics Association Organized Symposium, Park City, UT, June 2012.

Marsh, T.L. and **D.L. Pendell**. "An Economic Assessment of the National Bio and Agro-Defense Facility." Presented (by Marsh and Pendell) at Western Agricultural Economics Association Organized Symposium, Park City, UT, June 2012.

Pendell, D.L. and G.W. Brester. "Economic Impacts of Red Meat Export Market Access Requirements." Presented at Western Agricultural Economics Association Organized Symposium, Banff, Alberta, Canada, June 2011.

Jones, J.[a], J.G. Carlberg, and **D.L. Pendell**. "Effects of a Traceability System on the Economic Impacts of a Foot-and-Mouth Disease Outbreak." Presented (by Jones) at Southern Agricultural Economic Association annual meetings, Corpus Christi, TX, February 2010.

Pendell, D.L. and A.E. Hill. "Economic impacts for alternate depopulation capacities for a FMD outbreak in the U.S." Presented at International Symposia for Veterinary Epidemiology and Economics meeting, Durban, South Africa, August 2009.

Pendell, D.L. "Challenges and Issues Modeling Foreign Animal Disease Events." Presented at Agriculture and Applied Economics Association Organized Symposium, Milwaukee, WI, July 2009.

Goldbach, R.[a], **D.L. Pendell**, and J.R. Williams. "Identifying Characteristics of Risk Efficient Farms." Presented (by Goldbach) at Western Agricultural Economics Association annual meetings, organized symposium, Lihue, HI, June 2009.

Pendell, D.L. "Control Strategies for A FMD Outbreak: Probability Distributions of Economic Impacts." United States Animal Health Association Annual meeting, Greensboro, NC, October 2008.

Pendell, D.L. and T.C. Schroeder. "Impacts from Animal Health Management and Surveillance Strategies." Presented at Western Agricultural Economics Association Organized Symposium, Big Sky, MT, June 2008.

Brester, G.W. and **D.L. Pendell**. "Welfare Effects of Animal Identification: Research Methodology." Presented (by Brester and Pendell) at Western Agricultural Economics Association Organized Symposium, Big Sky, MT, June 2008.

Greathouse, B.[a], K. Reid[a], **D.L. Pendell**, and D.D. Thilmany. "Measuring the Economic Implications of Differing Animal Health Management Practices." Presented (by Greathouse) at Western Agricultural Economics Association annual meetings, organized symposium in Big Sky, MT, June 2008.

Pendell, D.L., J.C. Leatherman, T.C. Schroeder, and G.S. Alward. "The Economic Impacts of a Foot-And-Mouth Disease Outbreak: A Regional Analysis." Presented at Western Agricultural Economics Association annual meetings, Portland, OR, July 2007.

Pendell, D.L. and A.M. Featherstone. "Agricultural Investments in an Optimal Invest Portfolio Under a Structural Break." Presented at Western Agricultural Economics Association annual meetings, Anchorage, AK, June 2006.

Williams, J.R., **D.L. Pendell**, C.W. Rice, and R.G. Nelson. "A Risk Analysis of Carbon Sequestration in Claypan Soil with Conservation Tillage Systems and Nitrogen Fertilizers for Grain Sorghum and Soybean." Presented (by Pendell) at Southern Agricultural Economic Association annual meetings, Orlando, FL, February 2006.

Pendell, D.L. and M.A. Boland. "Persistence of Profitability in Family-Owned Food Businesses." Presented at American Agricultural Economic Association annual meetings, Providence, RI, July 2005.

Pendell, D.L., J.R. Williams, C.W. Rice, R.G. Nelson, and S.B. Boyles. "An Economic Feasibility Analysis of Manure Applications and No-Tillage for Soil Carbon Sequestration in Corn Production." Presented at Third USDA Symposium on Greenhouse Gases & Carbon Sequestration in Agriculture and Forestry, Baltimore, MD, March 2005.

Pendell, D.L. and T.C. Schroeder. "Cointegration in Regional Fed Cattle Markets." Presented at Western Agricultural Economics Association annual meetings, Honolulu, HI, July 2004.

Pendell, D.L., S.B. Boyles, J.R. Williams, C.W. Rice, and R.G. Nelson. "An Economic and Risk Analysis of the Effects of No-Tillage and Manure Applications on Soil Carbon Sequestration in Corn Production." Presented at Southern Agricultural Economic Association annual meetings, Tulsa, OK, February 2004.

Pendell, D.L., T.C. Schroeder, and P. Knoeber. "Effect of Captive Supply on Farm-to-Wholesale Beef Marketing Margin." Presented at Western Agricultural Economic Association annual meetings, Denver, CO, July 2003.

Posters ([a] after name denotes collaborations initiated with students during their graduate programs)

Day, M.E.[a], P.A. Lancaster, **D.L. Pendell**, B.J. White, and R.L. Larson. "Predictors of First Treatment Failure and Failure to Finish for Feedyard Cattle Treated for Acute Interstitial Pneumonia." Presented (by Day) at Plains Nutrition Council in San Antonio, TX. April 2025.

Weber, K.M.[a], T.C. Schroeder, D. Renter, **D.L. Pendell**, and G.T. Tonsor. 2024. "Evaluation of Bovine Respiratory Disease Morbidity in the Feedlot and its Effect on Net Return Distributions." Presented by Weber at the Agricultural and Applied Economics Association annual meeting in New Orleans, LA. July 2024.

Day, M.E.[a], **D.L. Pendell**, P.A. Lancaster, B.J. White, R. Larson. "Estimated Net Returns from Kansas Feedlot Cattle Treated for Acute Interstitial Pneumonia." Presented by Day at the Agricultural and Applied Economics Association annual meeting in New Orleans, LA. July 2024.

Shakil, G.S., T. Takesure[a], **D.L. Pendell**, and T.L. Marsh. "Are Disease Equilibria Equivalent to Health Equilibria?" Presented by Tozooneyi at the Agricultural and Applied Economics Association annual meeting in Washington D.C. July 2023.

Bowman, W.L.[a], **D.L. Pendell**, K.L. Herbel. "Differences Between High-, Medium-, and Low-Profit Cow-Calf Producers: An Analysis of 2014—2018 Kansas Farm Management Association Cow-Calf Enterprises." Poster presentation at the Global Agenda for Sustainable Livestock meeting in Manhattan, KS. September 2019.

Kim, Y.[a], E. Perry, and **D.L. Pendell**. "The Economic Value of Organic Labeling in the Fluid Milk Market. Poster presentation at the Agricultural & Applied Economics Association meeting in Washington, DC. August 2019.

Kim, Y.[a], T. Xia, and **D.L. Pendell**. "Supply Shocks and Market Power on Pricing: The Case of the Fluid Milk Market." Poster presentation at the Agricultural & Applied Economics Association meeting in Washington, DC. August 2018.

Houenou, B[a], T.L. Marsh, and **D.L. Pendell**. "Welfare Analysis of Livestock Disease Outbreaks." Poster presentation at the Agricultural & Applied Economics Association meeting in Washington, DC. August 2018.

Thompson, J., G.T. Tonsor, **D.L. Pendell**, and W. Preston. "Feedlot Willingness to Pay for Disposal Capacity to Address Foreign Animal Disease Risk." Poster presentation at the International Society for Economics and Social Sciences of Animal Health, Montpellier, France. May 2018.

Webb, M.J.[a], **D.L. Pendell**, A.A. Harty, R.R. Salverson, A.C. Rotz, K.R. Underwood, K.C. Olson, and A.D. Blair. "Identifying consumer preference for beef produced with different levels of growth promotant technology." Poster presentation (by Webb) at the Reciprocal Meats Conference, College Station, TX. June 2017.

Webb, M.J.[a], **D.L. Pendell**, A.A. Harty, R.R. Salverson, A.C. Rotz, K.R. Underwood, K.C. Olson, and A.D. Blair. "Influence of growth promoting technologies on animal performance, production economics, environmental impacts and carcass characteristics of beef." Poster presentation (by Webb) at the Reciprocal Meats Conference, College Station, TX. June 2017.

Cozzens, T.[a], **D.L. Pendell**, M. Sanderson, and R. Smith. "Estimating Farm Level Economic Impacts of Bovine Viral Diarrhea Virus in the United States." Poster presentation at the Inaugural International Society for Economics and Social Sciences of Animal Health Meeting, Aviemore, Scotland, March 2017.

Thompson, J., **D.L. Pendell**, A. Hagerman, and K. Johnson. 2017. "Modeling the Impact of Animal Disease Events on Quantity Exported." Poster presentation at the Inaugural International Society for Economics and Social Sciences of Animal Health Meeting, Aviemore, Scotland, March 2017.

Thompson, J., **D.L. Pendell**, A. Hagerman, and K. Johnson. 2017. "Incorporating Business Continuity into Future Disease Management Plans: A Case of U.S. HPAI Event." Poster presentation at the Inaugural International Society for Economics and Social Sciences of Animal Health Meeting, Aviemore, Scotland, March 2017.

Johnson, K.K., and **D.L. Pendell**. "Economic Impact of Reducing Bovine Respiratory Disease in United States Beef Cattle Feedlots." Poster presentation at the Agricultural & Applied Economics Association meeting in San Francisco, CA. July 2015.

Thompson, J.[a], **D.L. Pendell**, J.T. Weaver, K. Patyk, S. Malladi, and T. Boyer. "Potential Economic Impacts of a Highly Pathogenic Avian Influenza Outbreak on Upper Midwestern United States Table-Egg Laying Operations." Poster presentation at the Agricultural & Applied Economics Association meeting in San Francisco, CA. July 2015.

Hoffman, T.W.[a], K.E. Belk, D.R. Woerner, J.D. Tatum, R.J. Delmore, R.K. Peel, S.B. LeValley, **D.L. Pendell**, H.N. Zerby, L.F. English[a], S.J. Moeller, and F.L. Fluharty. "Preferences Associated with American Lamb Quality in Retail & Foodservice Markets." Poster presentation at the ASMA Reciprocal Meats Conference meeting in Lincoln, NE. June 2015.

Johnson, K.K., **D.L. Pendell**, and K.L. Stone. "Agricultural resource management survey and national animal health monitoring system data analysis: cow-calf case study." Poster presentation at International Symposia for Veterinary Epidemiology and Economics meeting, Maastricht, Netherlands, August 2012.

Johnson, K.K., A.H. Seitzinger, P.L. Paarlberg, and K.L. Stone, and **D.L. Pendell**. "Export market recovery in face of disease outbreaks: a summary of findings for various diseases and species." Poster presentation at International Symposia for Veterinary Epidemiology and Economics meeting, Maastricht, Netherlands, August 2012.

Johnson, K.K. and **D.L. Pendell**. "Agricultural Resource Management Survey and National Animal Health Monitoring System Data Analysis: Cow-Calf Case Study." Poster presented at Agricultural & Applied Economics Association meeting, Seattle, WA, August 2012.

Hamilton, A., S. Szmania, D. Kadavy, M. Isbell, M. Gardner, R. Cassagrande, M. Kazmierczak, M. Rush, G. Bieberbach, P. Bieringer, K. Coble, T.L. Marsh, **D.L. Pendell,** F. Bryant, P. Splichal, and J. Brewer. "A Site-Specific Biosafety and Biosecurity Risk Assessment for the National Bio and Agro-Defense Facility (NBAF)." Poster presentation at 5th National Bio-Threat Conference, Denver, CO, March 2012. Poster presentation, Military Operations Research Symposium (MORS), Colorado Springs, CO, June 2012.

Extension/Outreach Presentations

"New World Screwworm Economic and Market Implications". Presented with Ted Schroeder and Glynn Tonsor at K-State's Department of Agricultural Economics 2026 New World Screwworm webinar. (120 people).

"Economic Impacts of Animal Disease". Presented at Kansas Department of Agriculture's NASDA trade delegation from the Philippines. Manhattan, KS. October 2025. (+/- 25 people).

"Wider Economic Impact of Burden of Cattle and Small Ruminant Diseases". Global Burden of Animal Diseases Ethiopia case study Phase II closing stakeholder workshop. Presented virtually to government and industry stakeholders. Addis Ababa, Ethiopia. April 26, 2024 (+/-35 people).

"The Economic Impacts of a Foot-and-Mouth Disease Outbreak." Kansas Department of Agricultural Food Supply Webinar. July 2023. (+/-50 people).

"Economic Burden of Animal Diseases". National Institute for Animal Agriculture annual conference. Kansas City, MO. April 2023 (+/-40 people).

"Beef-Cattle Outlook and Drought Feeding". Tri-State Cow-Calf Symposium. Bird City, KS. January 2023 (+/- 40 people).

"Kansas Small Meat Processors Townhall". Manhattan, Colby, Wichita, and Parsons, KS on September 23rd, October 3rd, 4th, and 13th 2022, respectively. (+/- 20 people)

"Livestock Risk Management". At Women in Agriculture. Washington, KS. March 2021. (+/-20 people)

"Cow Calf Production". Risk and Profit Conference. Manhattan, KS. August 2021. (+/- 30 people)

"Drivers of Cow-Calf Profitability". With Kevin Herbel at Professional Animal Consultation on a webinar. November 2021. (+/-50 people)

"Infectious Diseases – Economic Implications: Supply Chain Impacts". Emerging Animal Infectious Diseases Conference. State College, PA. November 2021. (+/-120 participants)

"Drivers of Cow-Calf Profitability." UNL Beef Roundup webinar. January 2020. (+/-200 people).

"Making Cents of CattleTrace: Costs and Economic Impacts". With Hannah Shear at CattleTrace Symposium. Manhattan, KS. November 2019. (215 +/- people)

"Economic Discussion Surrounding Beef Sustainability". Beef Cattle Institute's Sustainable Beef Summit. Manhattan, KS. October 2019. (25 +/- people)

"Sustainable Beef 101: Economics in the Industry" Kansas Extension Master Food Volunteers. Manhattan, KS. May 2019. (+/- 40 participants)

"Veterinary Practice Economics." Veterinary Training Program for Rural Kansas. Manhattan, KS. January 2019. (+/- 20 people)

"Crop Management and Profitability." With Hannah Shear (Presented) and Kevin Herbel at Agricultural Lenders Conference. Manhattan, KS. October 2018. (+/- 95 people)

"Cow-Calf Profitability: Where to Focus Management for Success." With Whitney Bowman and Kevin Herbel at Risk and Profit Conference. Manhattan, KS. August 2018. (+/- 65 people)

"What is the Data Telling Us?" Colorado Cattlemen's Annual Convention. Loveland, CO. June 2018. (+/-150 participants)

"The U.S. Veterinary Profession". Veterinary Training Program for Rural Kansas. Manhattan, KS. May 2018 (10 people)

"Getting the Most Out of *AgManager.info*". With Glynn Tonsor at Use of Information Technology to Enhance Veterinary Services for Cow-Calf Herds. Manhattan, KS. February 2018 (+/-35 people)

"Beef Cattle Economics Trilogy: Beef Industry Outlook, Drivers of Profitability, and Better Use of Farm Management Budgets." With Glynn Tonsor at KSU Cattlemen's Day 2017. Manhattan, KS. March 2017. (+/-750 participants)

"Economic Impact of an Outbreak of FMD in the United States." Emerging Cattle Health and Research Issues Working Group at National Cattlemen's Beef Association Annual Convention. Nashville, TN. February 2017. (+/-55 people)

"Opportunities to Save of Cost of Production." Top 10 Considerations to Navigate a Struggling Farm Economy. Salina, KS; Eldorado, KS. January/February 2017. (+/-85 participants)

"Risks and Consequences of an Introduction of a Foreign Animal Disease into the U.S." Nebraska Cattlemen Annual Convention and Trade Show. Kearney, NE. December 2016 (+/- 35 participants)

"Costs of Production and Getting Creative with Diversifying Enterprises" Ag. Agent Update. Emporia, KS; Ness City, KS. November 2016. (+/- 55 participants)

"Costs of Alternate Grazing." K-State Ranching Summit. Manhattan, KS. October 2016. (+/-120 participants)

"Should We Return to Diversified Crop-Livestock Operations?" Agricultural Lenders Conference. Garden City, KS; Manhattan, KS. October 2016. (+/- 165 participants)

"Sheep Operation Production Costs and Beyond." K-State Sheep Producer Day. Manhattan, KS. March 5, 2016. (+/- 75 participants)

"Production Costs and Beyond." SW District Sheep School: Lambing Season Success. Jetmore, KS. January 14, 2016. (+/- 25 participants)

"Economic Effects of Livestock Diseases: What are the Implications?" Kansas Society of Farm Managers & Rural Appraisers Winter Meeting. Manhattan, KS, February 26, 2016. (+/-80 participants)

"Livestock Production Economics Update." Agricultural Agents Update. Manhattan, KS, December 2015. (+/- 40 participants)

"Animal Health in Feedlots and Cow-Calf Enterprises." Agricultural Lenders Conference. Garden City, KS; Manhattan, KS, September 2015. (+/- 120 participants)

"Economic Impact of Alternative FMD Emergency Vaccination Strategies in the United States." USDA-Veterinary Services Simulation and Modeling Seminar Series, July 2014. (Webinar)

"Continuity of Business for Beef Operations and Feedlots in the Event of an FMD Outbreak." Presented at USDA-APHIS. Fort Collins, CO. June 2014. (+/- 30 participants)

"The Economic Impacts of a FMD Outbreak in the United States." 23rd Annual Food Animal Conference, College Station, TX, June 2014. (+/- 100 participants)

"Economic Assessment of Evolving Red Meat Export Market Access Requirements for Traceability of Livestock and Meat." 2011 National Beef Quality Audit Strategic Workshop in Denver, CO, April 2012. (+/- 60 participants)

"Economic Assessment of Evolving Red Meat Export Market Access Requirements for Traceability of Livestock and Meat." Cattle Symposium, Lexington, NE, March 2012. (+/- 80 participants)

"Economic Effects of a Foot-and-Mouth Disease Outbreak in Livestock: What Does a FMD Outbreak Mean." Presented at Regional Emergency Preparedness Weekend Event: Protecting the Plains. U.S. Meat Animal Research Center, Clay Center, NE, April 2010. (+/- 25 participants)

"Trade and Disease Issues in the U.S. Beef Industry." Presented to Russian Beef Producer Delegation, Fort Collins, CO, December 2009. (+/- 15 participants)

"Epidemiology & Economics." Presented at *International Veterinary Epidemiology Course*, USDA-APHIS, Fort Collins, CO, August 2009. (+/- 25 participants)

"Economic Effects of a Foot- and-Mouth Disease Outbreak in Livestock: What Does a FMD Outbreak Mean To Me?" Presented at 7th Annual Bioprepardness Symposia, Gering, NE, May 2009. (+/- 25 participants)

"Animal ID & Diseases." Improving Communication between CLA and CSU: A Workshop for CLA's leadership on the CSU Campus, Colorado State University, Fort Collins, CO, February 2008. (+/- 25 participants)

"Considerations for Economic Modeling." Presented at *An Introduction to Epidemiologic Simulation Modeling* course, USDA-APHIS, Fort Collins, CO, January 2008 and 2010; August 2007, 2008, and 2010. (+/-30 participants)

"Developing Cost Parameters." Presented at *An Introduction to Epidemiologic Simulation Modeling* course, USDA-APHIS, Fort Collins, CO, August 2008. (+/- 30 participants)

"Estimating Movement Parameters with Limited Information." Presented at *An Introduction to Epidemiologic Simulation Modeling* course, USDA-APHIS, Fort Collins, CO, August 2007. (+/-30 participants)

"Obtaining Population Data for NAADSM." Presented at *An Introduction to Epidemiologic Simulation Modeling* course, USDA-APHIS, Fort Collins, CO, August 2007. (+/- 30 participants)

"Assessing the Impact of the National Animal Identification System (NAIS) With Regard To Beef, Pork and Lamb Harvesting and Rendering Facilities in the United States." Presented at workshop for Animal ID in Harvesting and Rendering Facilities, Breckenridge, CO, August 2007. (+/- 45 participants)

"What Do You Think? Participant Survey Results." Presented at Risk and Profit Conference, Department of Agricultural Economics, Kansas State University, Manhattan, KS, August 2004.

"Net Carbon Sequestration in NE Kansas Corn Production: An Economic Analysis." Presented at Consortium for Agricultural Soils Mitigation of Greenhouse Gases meeting, Kansas State University, Manhattan, KS, November 2003.

"What Do You Think? Participant Survey Results." Presented at Risk and Profit Conference, Department of Agricultural Economics, Kansas State University, Manhattan, KS, August 2003.

Radio & Television

Beef Cattle Institute's Cattle Chat – Weekly Podcast, May 2018 – Present

Collaborating Centre for the Economics of Animal Health.
RFD-TV, June and October 2023.
KCLY, June 2023.
Feed Strategy's podcast, June 2023.
K-State Radio Network, June 2023.

Kansas Small Meat Processors Townhall meetings. K-State Radio Network & MeatingPlace podcast, September 2022

Kansas Cow-Calf Production. K-State Radio Network, September 2021

Making Cents of CattleTrace: Costs and Economic Impacts. K-State Radio Network, December 2019

Effects of Crop Insurance on Farm Survival – K-State Radio Network, December 2017

Economic Impacts of a Foot-and-Mouth Disease Outbreak – Angus Talk and Angus TV, November 2016

Costs of Alternative Grazing – K-State Radio Network, October 2016

Should We Return to Diversified Crop-Livestock Operations? – K-State Radio Network, August 2016

Differences in Profit between Cow-Calf Producers – K-State Radio Network, March 2016; December 2016; January 2018; August 2018, January 2019

Is Adding Livestock the Solution – K-State Radio Network, January 2016

FMD Emergency Vaccination Strategies – K-State Radio Network, August 2015; USDA Radio News, October 2015.

RESEARCH ACTIVITIES

Grant Activity ([a] after name denotes collaborations initiated with students during their graduate programs)

Total Funded Research Support: $9.37 million (PI: $2.90 million; Co-PI: $6.47 million)

9/2026 – 2-2027	"Workshop on Animal Health Economics: Aligning Research, Policy, and Collaboration." USDA-National Institute of Food and Agriculture. PI: **D.L. Pendell**. Amount: $23,875.
5/2024 – 4/2026	"Mapping the Consequences of Disruptions to Global and Domestic Food and Agricultural Systems." PI: **D.L. Pendell**. Co-PI: A. Railey, J.A. Richt. U.S. Department of Homeland Security – Cross-Border Threat and Supply Chain Defense. Amount: $499,988.
4/2024 – 3/2025	"Analysis and Economic Impact of Highly Pathogenic Avian Influenza Control Strategies." PI: **D.L. Pendell**. Co-PI: J. Thompson, T.L. Marsh. USDA–Animal and Plant Health Inspection Services. Amount $250,000.
1/2024 – 12/2025	"Assessing Environmental and Economic Benefits among Grazing Practices, Management Plans, and Operation Sizes in the Southern Great Plains." PI: Lancaster, P.A., Co-PIs: **D.L. Pendell**, M.E. Day, and P. Abello. National Cattlemen's Beef Association. Amount: $99,935.
10/2023 – 09/2026	"Decreasing pulmonary-associated mortality in feedlot cattle using refined case definitions and predictive analytics: emphasizing acute interstitial pneumonia and late day BRD." PI: B.J. White. Co-PIs: A. Woolums, G. Mason, M. Scott, A. Finley, R. Larson**, D.L. Pendell**, P. Lancaster. Foundation for Food and Agriculture Research: International Consortium for Antimicrobial Stewardship in Agriculture. Amount: $1,515,322.
08/2023 – 07/2027	"Supply Chain Implications for Non-Zoonotic Foreign Animal Disease." PI: L. Britton. Co-PI: B. Coffey, **D.L. Pendell**, and G.T. Tonsor. USDA-National Institute of Food and Agriculture. Amount: $530,087.
11/2022 – 10/2024	"Measuring the Economic Impacts of African Swine Fever Virus on United States Supply Chains." PI: Simmons, H. Co-PIs: J. Rushton, **D.L. Pendell**, J. Tickel, and A. Countryman. U.S. Department of Homeland Security – Cross-Border Threat and Supply Chain Defense. Amount: $574,107.
07/2022 – 06/2023	"Enhancing Business Strategies, Food Safety, and Economic Capacity of Small and Very-Small Meat Processors in Kansas". PI: J.Vipham. Co-PI: **D.L. Pendell**, R. Mui. Kansas State University – Global Food System. Amount: $100,000.
05/2022 – 08/2023	**Pendell, D.L.** "KDA Office of the Economist Summer Internship". Kansas Department of Agriculture. Amount: $5,760.

01/2022 – 12/2024 "Antimicrobial Use Monitoring and Benchmarking in U.S. Feedyards." PI: M.D. Apley. Co-PI: D. Amrine, N.F.D. Schrag, **D.L. Pendell**. The Foundation for Food & Agricultural Research. Amount: $400,000.

04/2019 – 03/2021 "BCI Health Network: Monitoring Cattle Heart Syndromes." PI*:* B.J. White. Co-PI: D.E. Amrine, R. Weaber, R. Larson, **D.L Pendell**. American Angus Association. Amount: $120,000.

09/2018 – 08/2019 "Evaluating the Economic Impacts of CattleTrace." PI: **D.L. Pendell**. Kansas Department of Agriculture. Amount: $27,020.

07/2017 – 06/2018 "Development of *Economics of Animal Health and Food Safety* Online Course." PI: **D.L. Pendell**. KSU Global Campus. Amount: $13,638.

07/2017 – 03/2018 "Workshop on the Economics of Animal Health and Biosecurity." PI: **D.L. Pendell**. Co-PI: T.L. Marsh. USDA-National Institute of Food and Agriculture. Amount: $49,716.

12/2016 – 11/2020 "Linking cattle nutrition to human nutrition: A value chain approach to improving the production, handling, and consumption of animal source foods in Ethiopia." PIs: J. Vipham and **D.L. Pendell**. Co-PI: B. Bradford, T. O'Quinn, D. Min and N. Bascom. Univ. of Florida's Feed the Future Innovation Lab for Livestock Systems. Amount: $1,000,000.

10/2016 – 09/2017 "Evaluation of Biosecurity Incentives: Assessing Feedlot, Dairy, Broiler, Egg Layer and Turkey Producers." PI: **D.L. Pendell**. Co-PI: G.T. Tonsor and J.M. Thompson. USDA-Office of the Chief Economist. Amount $102,903.

07/2016 – 06/2021 "Addressing National Needs in the Economics of Food Security through Animal Health and Biosecurity." PI: **D.L. Pendell**. Co-PI: T.C. Schroeder and G.T. Tonsor. USDA-National Institute of Food and Agriculture. Amount $79,500.

04/2016 – 03/2017 "Economic Analysis of HPAI Issues." PI: **D.L. Pendell**. USDA–Animal and Plant Health Inspection Services. Amount $104,490.

10/2015 – 09/2018 "Assessing the Epidemiological and Economic Impacts of Countermeasures and Vaccination Strategies in Disease Outbreaks at the National Scale." PI: S. Pallickara. Co-PI: S Pallickara, F.J. Breidt, M. Sanderson and **D.L. Pendell**. Department of Homeland Security. Amount: $2,046,914. (KSU: $547,624)

09/2015 – 08/2016 "Economic Impact of Reducing Bovine Respiratory Disease (BRD) in U.S. Feedlots." PI: **D.L. Pendell**. USDA–Animal and Plant Health Inspection Services. Amount $42,331.

09/2015 – 08/2016 "Economic Consequence Assessment to Support Business Continuity Planning During a Highly Pathogenic Avian Influenza Outbreak." PI: **D.L. Pendell**. Co-PI: J.M. Thompson[a]. United States Department of Agriculture–Animal and Plant Health Inspection Services. Amount $30,000.

07/2015 – 06/2016 "Enhancing Feed Grain Food Use Estimates." PI: M.R. Taylor. Co-PI: **D.L. Pendell**. USDA – Economic Research Service. Amount $30,000.

01/2015 – 12/2017 "The National Center of Excellence for Zoonotic and Animal Disease Defense." PI: **D.L. Pendell**. Co-PI: J.M. Thompson[a]. Texas A&M University. Amount $88,168.

10/2014 – 09/2015 "Economic Impact of Reducing Bovine Respiratory Disease (BRD) in U.S. Feedlots." PI: **D.L. Pendell**. United States Department of Agriculture–Animal and Plant Health Inspection Services. Amount $54,995.

09/2014 – 08/2015 "Graduate Research Support in the Area of Feral Swine Genetics/Economics." PI: **D.L. Pendell**. Co-PI: K. Huyvaert. United States Department of Agriculture–Animal and Plant Health Inspection Services. Amount $100,000.

09/2014 – 08/2015 "Economic Consequence Assessment to Support Business Continuity Planning During a Highly Pathogenic Avian Influenza Outbreak." PI: **D.L. Pendell**. Co-PI: J. Thompson[a]. United States Department of Agriculture–Animal and Plant Health Inspection Services. Amount $61,833.

01/2014 – 03/2015 "Preferences & Complaints Associated With American Lamb Quality In Retail & Foodservice Markets." PI: K. Belk. Co-PI's: R.K. Peel, J.D. Tatum, **D.L. Pendell**, S.B. Levalley, D. Woerner, R.J. Delmore, and T. Hoffman[a]. American Lamb Board. Amount $150,000.

08/2013 – 08/2014 "Graduate Research Support in the Area of Genetics/Economics." PI: **D.L. Pendell**. Co-PI: R. Lyons. United States Department of Agricultural–Animal and Plant Health Inspection Services. Amount $75,000.

05/2013 – 12/2014 "Estimation of Economic Impacts of Selected Aspects of Equine Disease." PI: **D.L. Pendell**. Co-PI's: J. Traub-Dargatz and M. Kibler[a]. Zoetis, LLC. Amount $112,923.

10/2010 – 12/2011 "National Beef Quality Audit – 2011." PI: K. Belk. Co-PI's: J. Franke, D. Hale, G. Hilton, J. Igo[a], J.B. Morgan, J. Savell, J.D. Tatum, D. Van Oberbeke, **D.L. Pendell**, and D. Woerner. National Cattlemen's Beef Association. Amount $105,250.

03/2010 – 09/2010 "An Analysis Identifying Characteristics of Profitable Small and Medium Sized Farms in the United States." PI: **D.L. Pendell**. United States Department of Agriculture–Animal and Plant Health Inspection Service. Amount: $5,720.

04/2009 – 06/2010 "Propensity of Importers to Pay for Pork Quality Attributes in Select U.S. Export Markets." PI: Keith E. Belk. Co-PI's: R.G.L. Murphy[a], M.B. Bowling, **D.L. Pendell**, and G.C. Smith. National Pork Board. Amount: $99,900.

10/2007 – 12/2009 "Efficient Management Strategies for a Contagious Animal Disease Outbreak: Probability Distributions of Economic Impacts from Foot-and-Mouth Disease." PI: **Dustin L. Pendell**. Co-PI's T.C. Schroeder and A.E. Hill. United States Department of Agriculture–Economic Research Service. Amount: $142,084.

08/2007 – 09/2008 "Benefit Cost Analysis of the National Animal Identification System." PI: T.C. Schroeder. Co-PI's: D. Blasi, G. Brester, K.C. Dhuyvetter, **D.L. Pendell**, G.C. Smith, J. Stroade, and G.T. Tonsor. United States Department of Agricultural–Animal and Plant Health Inspection Service. Amount: $499,462.

3/2007 – 9/2008 "Evaluation of Alternative Surveillance and Control Zone Options in NAADSM." PI: **D.L. Pendell**. United States Department of Agricultural–Animal and Plant Health Inspection Service. Amount: $30,000.

08/2006 – 09/2008 "Costs of Livestock Disease in the United States and Benefits of Disease Surveillance." PI: D.D. Thilmany. Co-PI: **D.L. Pendell**. United States Department of Agriculture–Animal and Plant Health Inspection Service. Amount: $42,643.

10/2005 – 09/2007 "Value of Animal Traceability Systems in Managing Contagious Animal Diseases." PI: T.C. Schroeder. Co-PI: **D.L. Pendell**. Collaborators: D. Blasi and A.H. Seitzinger. United States Department of Agriculture–Economic Research Service. Amount: $151,800.

TEACHING ACTIVITIES

Descriptions of Courses Taught

Colorado State University

AREC 305 – Agricultural and Resource Enterprise Analysis.
Use of records in agricultural and resource enterprise management; analytical methods, budgets, and planning techniques for improved decision making.

AREC 310 (on-campus & distance) – Agriculture Marketing.
Market structure, behavior, and performance including futures market and market games theory.

AGRI 639 – Products to Profit.
Marketing all aspects of the enterprise, beginning with land and forage resource and tracking all revenue generation.

AREC 510 – Agricultural Product Marketing.
Marketing techniques and industrial organization/competition for agricultural products in U.S. domestic, international trade, and developing country markets.

AREC 605 – Agricultural Production and Cost Analysis.
Empirical application and analysis of production and cost issues in the agricultural and natural resource sectors.

AREC 610 – Agricultural Marketing and Demand Analysis.
Empirical application and analysis of agricultural marketing and demand issues in the agricultural and natural resource sectors.

Kansas State University

AGEC 461 – Agricultural Economics Global Learning Experience – Brazil.
An immersive, faculty-guided international course in which students apply disciplinary concepts through site visits, field activities, and cultural engagement. Emphasizes experiential learning and structured reflection within the context of Brazil.

AGEC 490 – Computer Applications in Agricultural Economics and Agribusiness.
Applications of microcomputers to problems in agricultural economics and agribusiness. Emphasis on budgeting, cash flow, record keeping, financial analysis, statistical analysis, linear programming, and data analysis. Fall 2005 with an enrollment of 68 students.

AGEC 501 – Data Analysis and Optimization.
Analysis of agricultural business and economic data and optimization for decision making. Study applications of regression, time series analysis and forecasting to agricultural and economic data. Introduction to mathematical programming to model optimization of problems commonly encountered in agricultural economics.

AGEC 750 – Economics of Animal Health and Food Safety.
This course provides students with the knowledge and understanding of the economic tools that are becoming essential in decision making for animal health and food safety interventions that range from the individual producer or firm to the national level.

Washington State University

EconS 352 – Business Management Economics.
Introduction to the economic concepts, techniques and applications of organizational, marketing, financial, operations, and resource management in a firm. This course develops and applies microeconomic theory to determine optimal business management strategies while considering scarce resources, risk, and competitive market structures. Spring 2013 with an enrollment of 58 students.

Student Evaluation of Courses Taught at Kansas State University, 2016 – Current

Course	Semester	Enrollment	Course Mean[a]	Instructor Mean[a]
AGEC 501	Spring 2016	65	3.7	4.3
AGEC 501	Spring 2017	74	3.6	3.9
AGEC 501	Spring 2018	75	3.4	3.5
AGEC 501	Spring 2019	54	4.2	4.3
AGEC 501	Spring 2020	60	4.2	4.6
AGEC 501	Spring 2021	42	4.7	4.8
AGEC 501	Spring 2022	50	3.9	3.8
AGEC 501	Spring 2023	50	4.4	4.4
AGEC 501	Spring 2024	45	4.4	4.6
AGEC 501	Spring 2025	47	3.5	3.7
AGEC 501	Spring 2026	50	4.6	4.6
AGEC 461	Fall 2026	26		

[a] Students ratings scale: Very High = 5, High = 4,…,Very Low = 1.

Student Evaluation of Courses Taught at Colorado State University, 2006 – 2015

Course	Semester	Enrollment	Course Mean[a,b]	Instructor Mean[a,b]
EA 310	Fall 2006	38	3.78	3.97
EA 305	Spring 2007	42	4.09	4.14
EA 310	Spring 2007	63	3.88	3.95
AREC 310	Fall 2007	70	3.99	4.06
AREC 310	Spring 2008	63	3.54	3.73
AGRI 639	Spring 2008	12	4.10	4.24
AREC 310 (distance)	Fall 2008	3	4.14	4.37
AREC 310	Spring 2009	72	4.16	4.24
AREC 510	Spring 2009	11	3.79	4.08
AREC 305	Fall 2009	37	4.09	4.02
AREC 310	Fall 2009	33	4.29	4.35
AREC 310 (distance)	Fall 2009	9	4.30	4.43
AREC 510	Spring 2010	10	4.43	4.61
AREC 305	Fall 2010	32	4.24	4.18
AREC 310	Fall 2010	52	4.17	4.29
AREC 310 (distance)	Fall 2010	5	4.50	4.86
AREC 510	Spring 2011	8	4.38	4.63
AREC 310	Fall 2011	64	3.88	4.19
AREC 310 (distance)	Fall 2011	15	4.20	4.50
AREC 510	Spring 2012	11	4.20	4.50
AREC 310	Spring 2014	80	3.41	3.68
AREC 310 (distance)	Spring 2014	30	4.59	4.82
AREC 605	Spring 2014	5	5.00	4.75
AREC 610	Spring 2014	7	4.67	4.83
AREC 310	Spring 2015	80	3.98	4.20
AREC 310 (distance)	Spring 2015	30	4.86	4.88
AREC 605	Spring 2015	9	4.63	5.00
AREC 610	Spring 2015	9	4.75	5.00

[a] Students ratings scale between 2006 – 2010: Strongly Agree = 5, Agree = 4, Neutral =3, Disagree = 2, Strongly Disagree = 1.

[b] Students ratings scale between 2011 – 2015: Excellent = 5, Above Average = 4, Average =3, Below Average = 2, Poor = 1.

Graduate Student Committees

Kansas State University

Committee Chair:

Ph.D. Agricultural Economics

Kalyani Shrestha – "Essays in Animal Health Economics". Anticipated Finish in Spring 2028.

Merri Beth Day – "Cattle Feeding in the Great Plains: Economic and Environmental Impacts of Cattle Performance and Disease Management." Initial Employment: Texas A&M University.

Takesure Tozooneyi – "Essays on the Economic Burden of Animal Diseases." Initial Employment: Consultant.

Hannah Shear – "Kansas cow-calf production efficiency" July 2021. Initial Employment: Oklahoma State University.

Youngjune Kim – "Essays on the Fluid Milk Industry" September 2019. Initial Employment: University of Missouri.

M.S. Agricultural Economics

Chance Shunk – "Grazing Management and Capital Inputs: How are rangeland health, profitability, and return on initial investment timeline affected across different ecological sites?" Anticipated Finish in Spring 2028.

Maccoy Stika – "Optimizing Feedlot Placement Weights Using Simulation-Based Mathematical Programming." June 2025

Whitney Bowman – "The Impact of Specialization on Farm Financial Performance." November 2019

Matthew Myers – "The Impact of Confined Animal Feeding Operations on Agricultural Land Values in Kansas." April 2019

Master of Agribusiness – Distance

Diana Zamora – "Traceability of highly pathogenic avian influenza for milk production in Southwest Kansas: Economic impacts during transportation." January 2026.

Courtney VanderMey – "Meating their needs: A needs assessment of meat processing businesses in Minnesota." July 2022

Chris Jorgensen – "Cost management on a large, Northern Plains cow-calf operation." May 2022

Leigh Rosengren – "Economics of Johne's Disease Control Decision in Western Canadian Cow-Calf Herds." June 2021

Cassie Aherin – "Grazing Management Plan Adoption in the United States Beef Industry." March 2021

J.D. Hunsaker – "Economics of Calf Grower Operations in Relation to Dairy-sourced Day-old Calf Price, and Feedlot Outcomes." November 2020

Taylor Holmes – "An Analysis of Different Types of Interstate certificates of Veterinary Inspection." May 2019

John Sachse – "Beef Replacement Heifer Decision Tool." April 2017

Tiffany Ligtenberg – "Awareness Assessment of Safe-Guard in the U.S. Cattle Industry." April 2017.

Committee Member:

Master of Agribusiness – Distance

Samuel Bormann – September 2024

Megan Anderson – March 2020

Logan Hoffman – April 2019

Brittni Lamoruex – August 2019

Carl Kass – January 2018

Darren Blew – December 2016

MS Agricultural Economics

Matthew Mechlor – April 2024

Claudia Hissong – November 2021

Michaela Eden – March 2021

Tanner Aherin – July 2018

Jiajing Hu – November Fall 2017

Brian Highfill – December 2016

Ph.D. Agricultural Economics

Kaitlyn Dinges-Webster – July 2022

Sang su Ha – July 2022

Elliott Dennis – April 2019

Other KSU Departments
Ph.D. Diagnostic Medicine/Pathobiology – 7 students
Ph.D. Agricultural Education – 1 student
Ph.D. Animal Sciences – 1 student
Ph.D. Grain Science – 1 student
M.S. Diagnostic Medicine/Pathobiology – 2 students

Colorado State University
Committee Chair (denotes Committee Co-Chair):*
M.S. Agricultural & Resource Economics
Reed Larsen* – "Economic Analysis of Profitability Factors in Cattle Feeding: Modeling Optimal Feeding to Achieve Maximum Profitability." Spring 2017
Szu-Yin Lee* – "Economic Impact of Foot-and-Mouth Disease Mitigation Strategies: A Meta-Regression Analysis." November 2015.
Beth Kessler* "Hedonic Analysis of Yearling Bull Prices for a Land Grant University: Determining the Value of a Pulmonary Arterial Pressure (pap) Score." November 2013.
Madilynne McGuire. "Forecasting Class III Milk Prices in a Volatile Market." November 2012.
Ryan Mortensen. "Two Essays on Colorado State University's Wheat Breeding and Genetics Program." June 2012.
Chulgu Cho. "Stock Market Reaction to Animal Disease Outbreaks: An Event Study in Korean Foot-and-Mouth Disease." May 2012.
Tyler Cozzens. "Economic Impact of Feral Swine Transmitting Foot-and-Mouth Disease to Livestock in Kansas." July 2010.
Brian Greathouse. "Vaccination Strategies for a Foot-and-Mouth Disease Outbreak in Southwest Kansas." April 2010.

Ph.D. Agricultural & Resource Economics
Jason Holderieath* Essays on Feral Swine: Producer Welfare Effects and Spatiotemporal Management of Feral Swine." July 2017. Initial Employment: Louisiana Tech. University
Vine Mutyasira* "Prospects for Sustainable Intensification of Smallholder Farming Systems in Ethiopian Highlands." March 2017. Initial Employment: University of Zimbabwe
Jada Thompson. "Three Essays on Economics of Highly Pathogenic Avian Influenza." July 2016. Initial Employment: Kansas State University
Michelle Kibler. "Selected Aspects of the Economics Surrounding Equine Disease." July 2016. Initial Employment: Illinois State University
Tyler Cozzens. "Essays in the Economic Implications of Select Animal Health and Crop Production Issues." July 2015. Initial Employment: USDA-Foreign Agricultural Service

Committee Member:
Ph.D. Agricultural & Resource Economics
Wenjing Hu – August 2012

M.S. Agricultural & Resource Economics
Yuefeng Zhu – August 2012
Amy Maass – April 2011

Other Departments
Ph.D. Clinical Sciences – 1 student
Ph.D. Animal Sciences – 5 students
M.A. Economics – 20 students
M.S. Animal Sciences – 8 students

Hawassa University (Awasa, Ethiopia)
Asheber Tegegn (Ph.D. Animal Nutrition) – June 2023

South Dakota State University
Megan Webb (Ph.D. Animal Science) – February 2018

University of Manitoba
Jason Jones (M.Sc. Agribusiness & Agricultural Economics) – July 2010

Post-Doctoral Fellow advised
Golam Shakil, 2025-Current
Ning Chen, 2025. Initial Employment: National Chiayi University.
Jada Thompson, 2016 – 2017. Initial Employment: University of Tennessee.

Advising/Mentoring

Undergraduate Students
Academic advisor for 20 – 25 Undergraduate Advisees annually, 2006-2012

Joanna Shefferd (Honor Thesis, Committee Chair). "Irish Beef Industry: A Reflection and a Recommendation." December 2011.

Sarah Clark (Honor Thesis, Committee Chair). "Selling the $10,000 Bull – A Plan for Marketing Seedstock Beef Cattle." December 2010.

Lance Pfeiff (Honor Thesis, Committee Chair). "Trends in the Colorado Horse Industry: A Brief Survey and Analysis." May 2009.

PROFESSIONAL SERVICE

National and State Committees
National Academy of Sciences. "Updated Biosafety and Biosecurity Mitigation Risk Assessment." Participant and Subject Matter Expert. Briefing on a study commissioned by Department of Homeland of Security. September 2011, March 2012.

National Academy of Sciences. "Site-Specific Biosafety and Biosecurity Mitigation Risk Assessment." Participant and Subject Matter Expert. Briefing on a study commissioned by Department of Homeland of Security. February 2010, July 2010.

USDA – National Institute of Food and Agriculture (NIFA). Peer review panel. September 2015, May 2024, May 2026.

Profession:
Agricultural & Applied Economics Association (AAEA)
Gardner Policy Selection Committee, 2020 – 2022
Nominating Committee, 2015 – 2018
Selected Paper Reviewer, 2005, 2008, 2009, 2011, 2014 – 2017, 2019

Western Agricultural Economics Association (WAEA)

Past-President, 2025 – 2026
President, 2024 – 2025
President-elect, 2023 – 2024
Outstanding Published Research Award Chair, 2021 – 2022
Executive Council, 2009 – 2013
Distinguished Scholars Selection Committee, 2011 – 2013
Selected Paper Reviewer, 2007, 2012 – 2015

Global Framework for the Progressive Control of Transboundary Control of Animal Diseases (GF-TADs) – Partnership and Financing Panel
Committee member, 2022 – 2026

International Society on Veterinary Epidemiological & Economics (ISVEE)
Scientific Committee, 2015
Selected Paper Reviewer and Session Chair, 2009, 2012, 2015, 2024

International Society of Social Science and Economics of Animal Health (ISSEAH)
Treasurer, 2022 – Current
Executive Board, 2017 – Current
Organizing Committee, 2018 – 2019
Scientific Committee, 2017 – 2019

Editorial Council, *Journal of Agricultural and Applied Economics*, 2020 – 2023

Editorial Council, *Preventative Veterinary Medicine*, 2018 – Current

Guest Editor, *Frontiers – Veterinary Sciences*, 2020 – 2021

Editorial Council, *Journal of Agricultural and Resource Economics*, 2018 – 2021

Western Association of Agricultural Experiment Station Directors project: "W3177: Enhancing the Competitiveness and Value of U.S. Beef."
Secretary/Vice Chair, 2013 – 2014
Chair, 2014 – 2015
Member, 2007 – Current

University and College Committees
Colorado State University:
Department
Agribusiness Association (*Advisor*), 2006 – 2008
Collegiate Farm Bureau (*Advisor*), 2011 – 2012
Graduate Student Association (*Advisor*), 2013 – 2015
Distance Education Review Committee, 2011 – 2012
Executive Committee, 2013 – 2015
Graduate Program
Committee Member, 2008 – 2012
Graduate Admission's Committee, 2008 – 2012
Faculty Mentoring Committees, 2013 – 2015
Ph.D. Agricultural Economics Field Exam Committee, January 2010 (*Chair*), 2011, 2013, August 2010 (*Chair*), 2011 (*Chair*), 2013, 2014

Search Committee
Department Head Search, 2010 – 2011
Agribusiness Faculty Search, 2011 – 2012
Undergraduate Education Review Committee, 2011 – 2012

College
ISTeC Education Advisory Committee, 2007 – 2008
Electronic Annual Evaluation Committee, 2010
Dean's Advisory Committee, 2009 – 2015
Strategic Initiative (*Assuring Meat and Produce Safety and Quality*) Committee, 2009 – 2015

University
College of Agricultural Science's Dean Search Committee, 2014 – 2015
Faculty Council's Committee on Strategic and Financial Planning, 2014 – 2015

Kansas State University:
Department
Graduate Student Association (*President)*, 2004 – 2005
Graduate Student Association (*Secretary*), 2003 – 2004
Faculty – Graduate Student Committee, 2003 – 2004
Preliminary Examination Committee, 2017– 2018
Search Committee
Agribusiness Management/Marketing – Assistant Professor, 2023
Grain Marketing/Risk Management – Assistant Professor, 2017
Southwest Area Economist, 2015
Northeast KFMA Economist, 2015

College
College Committee on Planning
Chair – 2024 – 2025
Member – 2024 – Current
Promotion and Tenure Committee, 2020 – 2022

University
Extension and Engagement Budget Transformation Committee, 2025
Search Committee Vice Provost and Dean of Graduate School, 2020

CSU's Animal Population Health Institute (APHI)
Member, 2007 – 2015

CSU's Center for Meat Safety & Quality (CMSQ)
Member, 2010 – 2015

Article Reviews

Agriculture & Resource Economic Review
American Journal of Agricultural Economics
Applied Economic Letters
Applied Economic Perspective & Policy
Canadian Journal of Agricultural Economics
Choices
Computers & Electronics in Agriculture
Food Policy
Frontiers – Veterinary Epidemiology & Econ
Inter'l Food & Agribusiness Mngt Review
Inter'l Review of Env and Res Economics
Journal of Agricultural & Applied Economics
Journal of Agricultural & Resource Economics
Journal of Agricultural Sciences
Journal of Amer Veterinary Medical Assoc.
Journal of Food Distribution Research
Journal of Toxicology & Environ. Health
PLoS ONE
Preventive Veterinary Medicine.
Q-Open
Sustainability
The Professional Animal Scientist
Translational Animal Science
USDA-ARS
USDA-ERS
Vaccine
Veterinary Research
Western Economics Forum
Zoonoses & Public Health

Outside Activities (Paid and Non-Paid):
Colorado State University, Department of Homeland Security, Farm Fresh Direct, Merck Animal Health, National Cattlemen's Beef Association, Signature Science, South Dakota State University, USDA-Office of the Chief Economist, U.S. Meat Export Federation, Washington State Academy of Science, Washington State University, and Zoetis