



VITA

J. Shannon Neibergs, Professor Livestock Economist

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EDUCATION

A. Degrees Earned

1993 Ph.D., Agricultural Economics, Texas A & M University

1987 M.A., Agricultural Economics, Washington State University

1983 B.S., Animal Science, Washington State University

EMPLOYMENT

A. University Related

Professor Extension Livestock Specialist, School of Economic Sciences, Washington State University, 2018 to present.

Associate Professor Extension Livestock Specialist, School of Economic Sciences, Washington State University, 2006 to 2017

Director, Western Center for Risk Management Education, July 2011 to present.

Assistant and Associate Professor, Department of Equine Business, College of Business, University of Louisville, 1995 -2006.

HONORS AND AWARDS

WSU Animal Sciences Outstanding Alumnus, 2022

Elected Agricultural and Applied Economics Assoc. Extension Section Chair, 2019-2022

Elected Agricultural and Applied Economics Assoc. Extension Section Director, Western Region, 2015-2018

NACAA, National Research Poster Competition, 2nd Place, Using Chlorophyll Meter and Tissue Testing to Determine In-Season Nitrogen Needs in Timothy Hay Production, O. Steve Norberg, Don A. Llewellyn, Steve. C. Fransen and J. Shannon Neibergs, 2016

NACAA, Excellence in Livestock Programming, Team award for National Communications Award winner in Team Newsletter category for Washington Animal Agriculture Team Newsletter, 2011.

NACAA, National Communications Award winner in Team Newsletter category for Washington Animal Agriculture Team Newsletter, 2011.

NACAA, National Finalist for Team Newsletter, Central Washington Animal Agriculture Team, 2010.

NACAA, Regional Finalist for Team Newsletter, Central Washington Animal Agriculture Team, 2008.

Meritorious Service Evaluation, College of Business and Public Administration, University of Louisville, 2003.

Outstanding Service Award Bonus, College of Business and Public Administration, University of Louisville, \$1,000, 2001.

Exceptionally Meritorious Annual Evaluation, College of Business and Public Administration, University of Louisville, 1999.

Research Award Bonus, College of Business and Public Administration, University of Louisville, \$1,000, 1998.

AAEA Research Poster Competition, Finalist, American Agricultural Economics Association, 1998.

Faculty Member of the Year Award, Equine Industry Program, College of Business and Public Administration, University of Louisville, 1997.

Best Paper Award, Kentucky Economics Association, 1996.

Superior Service Team Award, Texas Agricultural Extension Service, Texas A&M University, 1993.

Outstanding Thesis, Department of Agricultural Economics, Washington State University, Major Professor - Dr. Norman K. Whittlesey, 1987.

GRANTS, CONTRACTS AND FUND GENERATION*

* Key to description of contributions to Grants, Contracts and Fund Generation: 1 = Provided the initial idea; 2 = Developed research/program design and hypotheses; 3 = Authorship of grant application; 4 = Developed and/or managed budget; 5 = Managed personnel, partnerships, and project activities.

A. Grants and Awards - Funded

Improving the Economic Viability of Agricultural Producers Through Risk Management Education in the West, USDA NIFA. **J.S. Neibergs** and Co P.I. JoAnn Warner. (2024 – 2027) **(1,2,3,4,5, \$6,750,000)**

Developing techno-economic dairy farm manure management case studies to evaluate carbon market and cost incentive policies, WA Conservation Commission, **J.S. Neibergs**, K. Johnson and J. Michaels. (2024-25) **(1,2,3,4,5, \$162,283)**

Expansion of In-Depth Data Collection to Support "Pathways for Change: Understanding and Supporting Washington Dairies in Contributing to Washington's Climate Goals", WA Conservation Commission, G. Yorgey, **J. S. Neibergs**, (2024-25) **(2,3,4,5, \$306,695)**

Developing a Technical Assistance Network to Help Producers Access FSA Farm Loan and USDA Farm Programs with an Emphasis on Underserved Communities: A Pilot Project, **J.S. Neibergs** and Co P.I. JoAnn Warner. (2023 – 2028) **(1,2,3,4,5, \$7,600,000)**

Meat and Poultry Processing Supply Chain and Workforce Education, **J.S. Neibergs** and Co P.I. JoAnn Warner. (2022 – 2025) **(1,2,3,4,5, \$600,000)**

Rangeland Analogs and Economic Implications of Climate Change on Cattle Production, US Forest Service, P.I. Kirti Rajagopalan, Co-PI M. Brady and **J.S. Neibergs**, US Forest Service. \$102,807 (2021-2024) **(2,3,4,5, \$9,852)**

Farm Stress and Suicide Prevention: Farm Financial Literacy Workshops and One on One Technical Assistance, P.I. Don McMoran, Co-PI E. Weybright and **J.S. Neibergs**, USDA NIFA and WSDA \$258,000 (2021-2023) **(1,2,3,4,5, \$149,522)**

Improving the Economic Viability of Agricultural Producers Through Risk Management Education, USDA NIFA. \$6,750,000, **J.S. Neibergs** and Co P.I. JoAnn Warner. (2021 – 2024) **(1,2,3,4,5, \$6,750,000)**

Genomic Selection as a Risk Management Tool for U.S. Dairies, USDA WSARE. \$349,878, P.I. H. Neibergs, Co-PI **J.S. Neibergs**, A. Adams and J. Dalton. (2021-2024) **(1,2,3,4,5, \$22,289)**

Agricultural Industrial Symbiosis, An Applied Research Project as an Alternative Approach to Reduce/Eliminate Emissions from Agricultural Burning, WA DOE. \$90,000, P.I. R. Davis, Co-PI **J.S. Neibergs** and A. Nelson. (2021-2024) **(1,2,3,4,5, \$28,079)**

Western Center Risk Management Education, Agriculture Risk Management Education and Partnerships Competitive Grant Program, Supplemental Application, USDA NIFA. \$2,000,000. P.I.: **J.S. Neibergs** and Co P.I. JoAnn Warner. (2019 – 2021) **(1,2,3,4,5, \$2,000,000)**

Enhancing Efficiency of Anaerobic Digestion for Cost Reduction, WSU Applied Bio-Energy Research Program, \$30,000 P.I. Shulin Chen, Co-P.I. **J.S. Neibergs** (01/20 – 07/21). **(2,3,5, \$0)**

2019 Economic Contribution Analysis of Washington's Beef Industry, WA Cattlemen and Cattle Feeders Associations, \$28,967. P.I. **J.S. Neibergs**, Co-P.I. R. Fortenbery, T. Nadreau. (10/19-12/20) **(1,2,3,4,5, \$28,967)**.

Exploring the Development of a Research-Based Tool to Support Adaptive Stocking Decisions in the Inland Pacific Northwest, USDA Northwest Climate Hub, \$35,027. P.I. Georgine Yorgey, Co-P.I. **J.S. Neibergs**, T. Hudson, S. Hall and M. Reeves (10/18 – 09/19). **(1,2,3,4,5, \$4,670)**

Nutrient Recycling and Diversion of Waste to Energy, WSU Applied BioEnergy Research Program, \$40,080. P.I. Joe Harrison and **J.S. Neibergs** (07/18 – 07/20). **(1,2,3,4,5, \$40,080)**

Technology for Converting Excess Nitrogen in Dairy Manure to Fertilizer, WSU Applied Bio-Energy Research Program, \$35,000. P.I. Shulin Chen, Co-P.I. **J.S. Neibergs** (01/18 – 07/20). **(2,3,5, \$0)**

2018 Economic Contribution Analysis of Washington's Dairy Industry, WA Dairy Commission, \$33,500. P.I. **J.S. Neibergs**, Co-P.I. R. Fortenbery, T. Nadreau . (10/18-07/19) **(1,2,3,4,5, \$33,500)**.

Western Center Risk Management Education, USDA NIFA. \$3,506,736. P.I.: **J.S. Neibergs** and Co P.I. JoAnn Warner. (9/18-9/21) **(1,2,3,4,5, \$3,506,736)**

Case Studies to Build Rangeland Resilience to Climate Change in the Pacific Northwest, USDA Northwest Climate Hub, \$49,391. P.I. G. Yorgey, Co-P.I. M. Reeves, T. Hudson, **J.S. Neibergs**, H. Prendeville (6/17-3/18) **(2,3,5, \$0)**

Climate Change Effects on PNW Agriculture, USDA Northwest Climate Hub, \$26,701. P.I. C. Kruger, and Co-P.I. **J.S. Neibergs** and C. Stockle. (6/16-10/16) **(1,2,4,5, \$26,701)**

Forage Insurance Education, USDA RMA, \$57,495. P.I. **J.S. Neibergs** and Co-P.I. Jon Driver. (9/15-9/16) **(1,2,3,4,5, \$57,495)**

High Quality Beef – A Niche Market for Small and Medium Sized Farms, USDA AFRI \$479,995. P.I. M. Du and Co-P.I. M. Nelson, **J.S. Neibergs**, J. Busboom, D. Llewellyn. (1/16 – 12-19) **(2,3,4,5, \$40,633)**

2014 Economic Contribution Analysis of Washington's Beef Industry at the Ranch, Feedlot and Beef Processing Levels, WA Beef Commission, \$22,990. P.I. **J.S. Neibergs**, Co-P.I. M. Brady and P. Tozer. (07/14-07/15) **(1,2,3,4,5, \$22,990)**.

Farm Bill Producer Education, USDA FSA, \$42,685. P.I. Aaron Esser, Co-P.I.: **J.S. Neibergs** and R. Fortenbery. (9/14-6/15) **(1,2,3,4,5, \$42,685)**.

TAA for Farmers, Supplemental Award, USDA NIFA, \$141,046. P.I. **Neibergs, J.S.**, Co-P.I.: D. Moore and R. Craven. (7/13-7/14) **(1,2,3,4,5, \$141,046)**.

Using the BioIntensive Technique of Intercropping Teff (*Eragrostis tef*) into Timothy to Improve the Economic Sustainability of Timothy, WSU CSNAR BIO-AG Project. \$40,000. P.I. S. Norberg and Co-P.I.: D. Llewellyn, S. Fransen, **J.S. Neibergs** (3/13-6/14) **(2,3,5, \$40,000)**.

Developing Research and Production Information to Evaluate Camelina and Canola in a Sustainable Cropping, Bio-fuel Processing and Livestock Feeding System, WSU CSNAR BIO-AG Project. \$19,650. PI: D. Llewellyn and Co-PI: **J.S. Neibergs** (3/13-6/14) **(2,3,5, \$19,650)**.

Western Center Risk Management Education, USDA NIFA. \$3,506,736. P.I.: **J.S. Neibergs** and Co P.I. JoAnn Warner. (9/12-9/15) **(1,2,3,4,5, \$3,506,736)**

Yield, Feed Quality and Total Productivity of Teff Overseeded in Timothy, Washington State Hay Growers Association. \$26,500. P.I. S. Norberg, Co-P.I.: S. Fransen, D. Lewllyn and **J.S. Neibergs** (3/12-3/13) **(2,3,4,5, \$26,500)**

Mitigation of Air Emissions from Dairy Operations via Adoption of Select Multiple Best Management Practices, USDA NRCS. \$410,491. P.I. P. Ndegwa and Co-P:I: J. Harrison and **J.S. Neibergs** (9/11-9/14) **(2,3,4,5, \$36,500)**.

2011 - Economic Impact of Washington's Dairy Industry At the Farm Level and from Farm Gate to Retail Sales, Washington Dairy Federation. \$23,490. P.I. **J.S. Neibergs** and Co-P.I. M. Brady (11/11-12/12) **(1,2,3,4,5, \$23,490)**.

Integrated Program for Reducing BRDC in Beef and Dairy Cattle, USDA AFRI CAP. \$9,744,968. P.I. J. Womak and Co-P.I. H. Neibergs, A. Van Eenennaam, M. Thomas, J. Taylor, C. Seabury and **J.S. Neibergs** (3/11-3/16) **(1,2,3,4,5, \$346,000)**.

Asparagus Trade Adjustment Assistance – Curriculum, USDA NIFA - University of Minnesota. \$24,389. P.I. **J. S. Neibergs** (1/11-1/12) **(1,2,3,4,5, \$24,389)**.

Sustainable Alternatives to the Conservation Reserve Program (CRP), WSARE.\$50,000. P.I. D. Nelson and Co-P.I. **J.S. Neibergs**, L.Carpenter-Boggs and S. Van Vleet (1/11-2/13) **(1,2,3,4,5, \$50,000)**.

Risk Management Education for Washington Livestock Producers and Cull Cow Marketing Strategies, Western Center for Risk Management Education. \$42,977. P.I. **J.S. Neibergs** (4/09-4/10) **(1,2,3,4,5, \$42,977)**.

Economics of Asparagus Mechanized Harvest and Economic Effect of Free Trade Agreements on the Asparagus Industry, USDA Specialty Crops. \$18,196. P.I. J.S. Neibergs (3/09-3/11) **(1,2,3,4,5, \$18,196)**.

Nutrient Capture and Redistribution in a Community Anaerobic Digester, USDA CIG, \$414,013. P.I. J. Harrison and Co-P.I. **J.S. Neibergs** (3/08-3/11) **(1,2,3,4,5, \$414,013)**.

Economics of Asparagus Establishment and Production, USDA CSREES, \$8,981. P.I. J.S. Neibergs (2/08-3/09) **(1,2,3,4,5, \$8,981)**.

Western Regional Beef Quality Assurance: Implementation & Enhancement of Record Keeping, NCBA BQA. \$20,000. P.I.: D. Moore and Co-P.I.: J. Busboom, J. Wentz and **J.S. Neibergs**. (04/08-06/09) **(1,2,3,4,5, 20,000)**.

Development of a WA State Cattle Health Assurance Program: BVD Pilot Project, WSU Extension. \$75,270. P.I.: H. Neibergs and Co-P.I.: **J.S. Neibergs**, D. Moore and J. Wentz. (12/07-12/09) **(1,2,3,4,5, \$75,270)**.

Grass Fed Beef Production Systems/Pasture Management, WSU Extension. \$71,729. P.I. D. Nelson and Co-P.I.: L. Boggs, **J.S. Neibergs** and S., Van Vleet. (12/07-12/09) **(1,2,3,4,5, \$71,729)**.

Phosphorous and Solids Removal from Anaerobic Digestion Effluent through Electrochemical Technology, USDA CIG. \$398,454. P.I. S. Chen and Co-P.I.: C. Frear, Q. Zhao and **J.S. Neibergs**. (6/07-6/10) **(2,3,4,5, \$398,454)**.

An Integrated, Multifunction Ammonia Removal and Nutrient Recovery System for Mitigating Air and Water Quality Impacts of Animal Operations, USDA NRI. \$544,853. P.I. S. Chen and Co-P.I.: C. Frear, and **J.S. Neibergs**. (9/07-9/10) **(2,3,4,5, \$74,398)**.

Beefing Up the Palouse - A Sustainable Alternative to the CRP, Ag Pilots Project - William D. Ruckelshaus Center. \$81,713. P.I. D. Nelson and Co-P.I.: **J.S. Neibergs** and S., Van Vleet. (12/07-12/09) **(1,2,3,4,5, \$81,7213)**.

Washington Dairy Farms Economic Impact, Washington Dairy Federation. \$17,283. P.I. **J.S. Neibergs** (12/06-3/08) **(1,2,3,4,5, \$17,283)**.

B. Grant Proposals – Unfunded

Year	Total Grants	Total Dollars
2007	4	\$420,853
2008	1	\$44,363
2009	3	\$814,525
2010	2	\$310,389
2011	3	\$1,051,268
2012	6	\$3,803,279

2013	2	\$99,000
2014	2	\$1,499,217
2015	1	\$1,167,347
2016	2	\$57,389
2017	3	\$5,306,000
2018	2	\$75,606
2019	1	\$39,979
2020	4	\$1,501,537
2021	2	\$1,349,629
2022	1	\$344,000
2023	1	\$350,000
2024	1	\$10,000,000

C. Program Sponsors, Partners, and Revenue

2014 – Lamb 200 Program Fees, \$2,600, Fund Administrator: S. Smith

2014 – Beef 300 Program Fees and Donations \$22,800, Fund Administrator: J. Busboom.

2013 – Farm Credit Services, Donation for Keepseagle Workshops, \$5,000. Fund Administrator: **J.S. Neibergs**

2011 – Beef/Lamb/Pork Workshop Series, Donations and Registrations, \$2,300. Fund Administrator: S. Smith

2010 – Lamb 100 and Sustainable Livestock Production, Registrations and Donations, \$5,600. Fund Administrator: S. Smith

2009 – Beef 300 and Lamb 300 Registrations and Donations, \$25,400. Fund Administrator: J. Busboom.

2008 – Washington Hay Growers Association, \$500, Fund Administrator: **J.S. Neibergs**

PUBLICATIONS*

* Key to description of contributions to Publications and Creative Work: 1 = Developed the initial idea; 2 = Obtained or provided funds or other resources; 3 = Collected data; 4 = Analyzed data; 5 = Wrote/created product; 6 = Edited product.

A. Peer-Reviewed Journal Articles

Herrick A.L., M. I. Marcondes, **J. S. Neibergs**, and H. Neibergs, (submitted, 2024) Impact of Genomic Selection on Dairy Herd Efficiencies and Environmental Footprints, J. of Dairy Science. (1,2,3,4,5,6)

Dada, O. I., L. Yu, **J.S. Neibergs**, S. Chen. 2025, Biodesulfurization: Effective and Sustainable Technologies for Biogas Hydrogen Sulfide Removal, Renewable and Sustainable Energy Reviews, 209, <https://doi.org/10.1016/j.rser.2024.115144> (2,4,5,6)

Hudson, T.D., M.C. Reeves, S.A. Hall, G.G., Yorgey, **J.S. Neibergs**. 2020. Big Landscapes Meet Big Data: Informing Grazing Management in a Variable and Changing World. Rangelands, <https://doi.org/10.1016/j.rala.2020.10.006>. (3,4,5,6)

Liu, X.D., N.R. Moffitt-Hemmer, J.M. Deavila, A.N. Lia, Q.T. Tiana, A. Bravo-Iniguez, Y.T. Chen, L. Zhao, M.J. Zhub, **J.S. Neibergs**, J.R. Busboom, M.L. Nelson, A. Tibary, M. Du. 2020. Wagyu–Angus Cross Improves Meat Tenderness Compared to Angus Cattle but Unaffected by Mild Protein Restriction During Late Gestation, *Animal*, <https://www.sciencedirect.com/science/article/pii/S1751731120301464> (4,5,6)

Allen, A., D. Llewellyn, S. Kerr, T. Hudson, **J.S. Neibergs**, S. Smith and D. Moore. 2019. Developing Herd Health Education for and Assessing Risky Practices of Cow-Calf Producers. *J. of Extension*, <https://www.joe.org/joe/2019october/rb8.php>. (1,2,3,4,5,6)

Neibergs, J.S., T. Hudson, C. Kruger and K. Hamel-Rieken. 2017. Climate Change Effects on Grazing Management and Beef Cattle Production in the Pacific Northwest. *Climate Change* <https://link.springer.com/article/10.1007/s10584-017-2014-0> <https://doi.org/10.1007/s10584-017-2014-0> (1,2,3,4,5,6)

Ma, G., **J.S. Neibergs**, J.H. Harrison and E. M. Whitefield. 2017. Nutrient Contributions and Biogas Potential of Co-Digestion of Feedstocks and Dairy Manure. *Waste Management* 64:88-95. <http://www.sciencedirect.com/science/article/pii/S0956053X17301812>

Llewellyn, D., R. Sero, E. Walker, **J.S. Neibergs**, J.P. Driver, J. Smith. 2016. A Successful Youth Beef Exhibitor Program: Reviewing History, Industry Milestones, Education, and 35 Years of Carcass Excellence. *J. of NACAA* 9:1 <http://www.nacaa.com/journal/index.php?jid=615> (4,5,6)

Llewellyn, D. G. Rohwer, S. Norberg, E. Kimura, **S. Neibergs** and S. Fransen. 2015. Case Study: Evaluating Farm Processed Canola and Camelina Meals as Protein Supplements for Beef Cattle. *J. of NACAA* 8:2 <http://www.nacaa.com/journal/index.php?jid=545> (4,5,6)

Neibergs, J.S., C. Mahnken, D.L. Moore, N.P. Kemper, J.G. Nelson, R. Rainey and P. Hipple. 2015. Extension Education Drives Economic Stimulus Through Trade Adjustment Assistance for Farmers. *Journal of Extension*, <http://www.joe.org/joe/2015february/a8.php>. (1,2,3,4,5,6)

Neibergs, J.S., J. Harrison and E. Whitefield. 2013. Economic Analysis of Anaerobic Co-Digestion Using Dairy Manure and Byproduct Feedstocks. *International Farm Management*, http://www.ifmaonline.org/pages/con_articles.php?article=12. (1,2,3,4,5,6)

Neibergs, H. R. Zanella, E. Casas, G.D. Snowder, J. Wenz, **J.S. Neibergs** and D. Moore. 2011. Loci on *Bos Taurus* Chromosomes 2 and *Bos Taurus* chromosome 26 are linked with

Bovine Respiratory Disease and Associated with Persistent Infection of Bovine Viral Diarrhea Virus. *J. Anim. Sci.* 89:2, 907-915. (1,2,3,4,5,6)

Bosch, K.A., D. Powell, **J.S. Neibergs**, B. Shelton, & W. Zent. 2009. Impact of Reproductive Performance over Time and Mare Quality on Economic Returns among Thoroughbred Mares in Lexington, Kentucky USA. *Equine Veterinary Journal*. 41:9. 889-894. (1,2,3,4,5,6)

Neibergs, J. Shannon. 2006. Economics of Broodmare Reproduction. *Equine Disease Quarterly* 15:4-5. (1,2,3,4,5,6)

Neibergs, J. Shannon. 2001. A Hedonic Price Analysis of Thoroughbred Broodmare Characteristics. *Agribusiness: An International Journal*, 17:299-314. (1,2,3,4,5,6)

Neibergs, J. Shannon and Richard Thalheimer. 1999. An Economic Analysis of the Effectiveness of Thoroughbred Breeder/Owner Incentive Policies. *Journal of Agricultural and Applied Economics*. 31:581-592. (1,2,3,4,5,6)
<http://ageconsearch.umn.edu/bitstream/15157/1/31030581.pdf>

Neibergs, J. Shannon. 1999. Kentucky Parimutuel Revenue Policy Simulator”, *Gaming Research and Review Journal*, 5(1999):17-31.

Neibergs J. Shannon and Patrick L. Vinzant. 1999. Maximum-Likelihood Estimates of Racehorse Earnings and Profitability. *Journal of Agribusiness*. 17:37-49. (1,2,3,4,5,6)
<http://ageconsearch.umn.edu/bitstream/14682/1/17010037.pdf>

Neibergs, J. Shannon. 1998. Macroeconomic Conditions and Agribusiness Profitability: An Analysis Using Pooled Data. *International Food and Agribusiness Management Review*. 1:91-105. (1,2,3,4,5,6) <http://ageconsearch.umn.edu/bitstream/15157/1/31030581.pdf>

Neibergs J. Shannon and Richard Thalheimer. 1997. Price Expectations and Supply Response in the Thoroughbred Yearling Market. *Journal of Agricultural and Applied Economics*, 29:419-435. (1,2,3,4,5,6)
<http://ageconsearch.umn.edu/bitstream/15061/1/29020419.pdf>

B. Peer Reviewed Extension Publications

Herrick, A., **J.S. Neibergs** and H. Neibergs, 2025, Implementing Genomic Selection in Beef Herds, FS393E (in-press) (1,2,3,4,5,6)

Herrick, A., **J.S. Neibergs** and H. Neibergs, 2024, Understanding and Using Genomic Selection in Dairy Herds, [FS392E](#), (1,2,3,4,5,6)

Fransen, S., S. Arispe, M. Bohle, B. Brazee, S. Duggan, R. Fleenor, T. Hudson, R. Koenig, K. S. Jensen, D. Llewellyn, A. Moore, I. McGregor, J. S. Neibergs, S. Norberg, I. Reid, J. Sagers, G. Shewmaker, K. C. Tanner, G. Wang, A. Westerhold, C. Willmore, 2024, Inland Pacific Northwest Pasture Calendar, [PNW708](#), (1,2,3,4,5,6)

Hall, S., T. Hudson, G. Yorgey, **J.S. Neibergs**, and M. Reeves, 2020. Building Rangeland Resilience Through Engagement - Brenda and Tony Richards, Increasing resilience among ranchers in the Pacific Northwest Series, [PNW737](#), (1,2,3,4,5,6)

Hall, S., T. Hudson, G. Yorgey, **J.S. Neibergs**, and M. Reeves, 2019. Building a Tradition of Adaptation in Rangeland Management – Jack Southworth, Increasing resilience among ranchers in the Pacific Northwest Series, [PNW731](#), (1,2,3,4,5,6)

Hall, S., T. Hudson, G. Yorgey, **J.S. Neibergs**, and M. Reeves, 2019. Grazing Management That Achieves Multiple-use Goals – Russ Stingley, Increasing resilience among ranchers in the Pacific Northwest Series, [PNW724](#) (1,2,3,4,5,6)

Neibergs, J.S., J.P. Driver and D.A. Llewellyn, 2016. “Valuing Canola and Camelina Biodiesel Byproduct Meal as A Livestock Protein Supplement.”, [FS193E](#), (1,2,3,4,5,6)

Driver, J., **J.S. Neibergs** and J. Nelson. 2014. Overview of the Agricultural Act of 2014 Dairy Margin Protection Program and Its Implications for Washington Dairy Farmers. [EM052E](#) (1,2,3,4,5,6)

Norberg, S. and **J.S. Neibergs**, 2014. 2012 Costs of Producing Alfalfa Hay under Center Pivot Irrigation in the Columbia Basin of Washington State. FS 133E, <https://pubs.wsu.edu/ItemDetail.aspx?ProductID=15666> (1,2,3,4,5,6)

Neibergs, J.S. and Don Nelson. 2009. 2008 Estimated Costs and Returns for a 150-Head Cow-Calf to Grass Finished Beef Production System in the Channel Scablands Range Area of East-Central Washington, Extension Bulletin, EM010. <http://cru.cahe.wsu.edu/CEPublications/EM010/EM010.pdf> (1,2,3,4,5,6)

E. Abstracts and Proceedings

Neibergs, J.S., D.P. Anderson, 2015. The Changing Impact of Economics on Managing Bovine Respiratory Disease Complex in Feedlot Cattle, Proceedings 48th American Association of Bovine Practitioners, New Orleans, LA. (1,2,3,4,5,6)

Neibergs, J.S., H.L. Neibergs, J.F. Taylor, C.M. Seabury, T. Lehenbauer, A. Van Eenennaam, and J.E. Womack. 2014. An Estimate of the Economic Gain from Selection to Reduce BRD Incidence in Dairy Calves. Proceedings 10th World Congress of Genetics Applied to Livestock Production 10th World Congress of Genetics Applied to Livestock Production, Vancouver, Canada. [https://asas.org/wcgalp-proceedings/genetic-improvement-programs-breeding-objectives-economics-of-selection-schemes-and-advances-in-selection-theory-\(posters\)](https://asas.org/wcgalp-proceedings/genetic-improvement-programs-breeding-objectives-economics-of-selection-schemes-and-advances-in-selection-theory-(posters)) (1,2,3,4,5,6)

Neibergs, H.L., **J.S. Neibergs**, A. Wojtowicz, J.F. Taylor, C.M. Seabury, C.M., and J.E. Womack. 2014. Economic Benefits of Using Genetic Selection to Reduce the Prevalence of Bovine Respiratory Disease Complex in Beef Feedlot Cattle. Proceedings Beef Improvement Federation Beef Improvement Federation, Lincoln, NE.

<http://www.bifconference.com/bif2014/documents/proceedings/82-87-NeibergsEdited.pdf>
(1,2,3,4,5,6)

Neibergs, J.S., D.A. Llewellyn, J.P. Driver and S.A. George. 2014. Beef Cattle Winter Feed and Protein Supplement Cost Calculator. Proceedings 2014 Oilseed Direct Seed Cropping Systems Conference, 2014. (1,2,3,4,5,6)

Neibergs J.S., J. Harrison, E. Whitefield and M. De Hart. 2013. Economic Analysis of Anerobic Co-Digestion using Dairy Manure and Byproduct Feedstocks. 19th International Farm management Congress, Warsaw, Poland. [ISBN 978-92-990062-1-4](#) (1,2,3,4,5,6)

Neibergs, J.S. 2013. The Effectiveness of Livestock Revenue Protection Insurance for Feeder Cattle Risk Management, AAEA Extension Session Symposium, Crop Insurance and the Farm Bill: A New Paradigm in U.S. Agriculture Policy, Louisville, KY. (1,2,3,4,5,6)

Neibergs, J.S., J. Harrison, E. Whitefield and M. De Hart. 2012. Applications of an Economic Anaerobic Digester Optimization Model, Proceedings US Environmental Protection Agency AgSTAR Annual Conference. (1,2,3,4,5,6)

Neibergs J.S., J. Harrison, E. Whitefield and M. De Hart. 2011. Development and Application of an Economic Anaerobic Digester Optimization (ADOPT) Model. NRCS CIG Showcase, Washington D.C. (1,2,3,4,5,6)

Neibergs, J.S., J. Wentz, H. Neibergs, and D. Moore. 2010. An Economic Analysis of Bovine Viral Diarrhea Persistently Infected Disease Prevalence in Washington Beef Herds, ASAS Annual Meetings, Denver CO. (1,2,3,4,5,6)

D. Other Publications

Neibergs, J.S. 2021-2025. Beef Cattle Sector Review and Outlook, [Washington Agribusiness Status and Outlook](#), IMPACT Center Washington State University. (1,2,3,4,5,6)

Neibergs, J.S. 2021-2025. Dairy Sector Review and Outlook, [Washington Agribusiness Status and Outlook](#), IMPACT Center Washington State University. (1,2,3,4,5,6)

Neibergs, J.S. and T. Nadreau, 2021. [Fact Sheet: 2019 Contributions of the Washington Beef Sector to the Washington Economy](#). (1,2,3,4,5,6)

Nadreau, T. and **J.S. Neibergs**, 2021. [Fact Sheet: 2019 Contributions of the Washington Beef Sector to the Washington Economy](#). (1,2,3,4,5,6)

Neibergs, J.S. and S. Kerr. 2013. An Economic Review of Preconditioning Beef Calves, WSU Bovine Respiratory Disease Bloodlines to Fencelines Education Project. (1,2,3,4,5,6)

Moore, D., A. Allen and **J.S. Neibergs**. 2013. Optimizing Pre-Weaning Calf Care and Treatment to Reduce the Impact of BRD, WSU Bovine Respiratory Disease Bloodlines to Fencelines Education Project. (1,2,3,4,5,6)

Hendrix, W.F., **J.S. Neibergs**, T.D. Hudson. 2013. Documenting BRD Incidence and Animal Health Costs Associated with BRD in Your Herd, WSU Bovine Respiratory Disease Bloodlines to Fencelines Education Project. **(1,2,3,4,5,6)**

Neibergs, J.S. and S. Shrey. 2009. Evidence of Economic Harm to Washington, Michigan and California Asparagus Producers from the Andean Trade Preference Act and North American Free Trade Agreement, Farm Business Management Report. **(1,2,3,4,5,6)**

Neibergs, J.S. and T. Waters. 2009. Establishment and Annual Production Costs for Washington Asparagus in 2009. **(1,2,3,4,5,6)**

Neibergs, J.S. and D. Holland. 2007. Economic Impact of Washington Dairy Farms: An Input-Output Analysis, Farm Business Management Report. **(1,2,3,4,5,6)**

Moore, Dale, Jan Busboom and **J.S. Neibergs**. 2008. Cow-Calf Herd Notebook. Western Region Alliance for Beef Quality Assurance. **(2,3,4,5,6)**

Neibergs, J.S. 2008. The Importance of Estate Planning. The Good Fruit Grower, 59(2008):52 **(1,2,3,4,5,6)**

Neibergs, J.S. 2007. COOL Economics. Ketch Pen - News of the Washington Cattlemen's Association, 26(2), pp 7. **(1,2,3,4,5,6)**

Neibergs, J.S., R. G. Lawrence and R. D. Morgan. 2002. 2001 American Saddlebred Horse Association Demographic Study, University of Louisville. **(1,2,3,4,5,6)**

Lawrence, R.G., R.D. Morgan and **J.S. Neibergs**. 2002. A Feasibility Study for an Equestrian Facility in Oldham County. Equine Industry Program, University of Louisville, **(2,3,4,5,6)**

Neibergs, J. Shannon and R. G. Lawrence. 2000. Kentucky Breeding Industry Issues Survey - Summary Results. Equine Industry Program, University of Louisville, **(1,2,3,4,5,6)**

Neibergs, J. S., J.M. McGrann and J. Parker. 1992. FINYEAR - Financial Statement Preparation Software that Conforms to the Farm Financial Standards Task Force Guidelines, Abstract Southern Journal of Agricultural Economics, 24(1992):295. **(1,2,3,4,5,6)**

Osei, E., P.B. Lakshminarayan, **J.S. Neibergs**, Aziz Bouzaher and Stanley R. Johnson. 1995. Livestock and the Environment: A National Pilot Project - The Policy Space, Economic Model, and Environmental Model Linkages", Staff Report 95-SR 78. **(2,3,4,5,6)**

Neibergs, J.S. and A. Bouzaher. 1994. A Conceptual Framework to Analyze Livestock Waste Issues", Great Plains Agricultural Council, Confined Animal Waste and Water Quality Task Force, Proceedings. **(2,3,4,5,6)**

Bouzaher, A., S.R. Johnson, **J. Shannon Neibergs**, and R. Jones. 1993. The Conceptual Framework for the National Pilot Project on Livestock and the Environment. Staff Report 93-SR 67, Iowa State University, Ames Iowa. **(2,3,4,5,6)**

Jones, R., L. Frarey, A. Bouzaher, S.R. Johnson, and **J.S. Neibergs**. 1993. Livestock and the Environment: A Detailed Problem Statement. TIAER, Staff Report, Stephenville TX. **(2,3,4,5,6)**

McGrann, J. M. and **J.S. Neibergs**. 1992. Beef Cattle Breeding Stock Accounting. Texas Agricultural Extension Service, Farm Management Handbook, RI-6. **(2,3,4,5,6)**

McGrann, J. M., and **J.S. Neibergs**. 1992. Accounting for Cattle Transfers Between Business Entities", Texas Agricultural Extension Service, Farm Management Handbook, RI-7. **(2,3,4,5,6)**

McGrann, J. M., **J.S. Neibergs**, K. Karkosh, and L. Falconer. 1990. AFAES - Agricultural Financial Analysis Expert Systems. Department of Agricultural Economics, Texas Agricultural Experiment Station. **(2,3,4,5,6)**

Neibergs, J.S. and H. Hinman. 1987. Cost of Producing Crops in Kittitas County, Extension Bulletin No. 1293, Cooperative Extension Service, Washington State University. **(2,3,4,5,6)**

PRESENTATIONS

A. International

Global Perspectives on Agriculture Supply Chain Sustainability, Invited Presentation, The Pacific Northwest Economic Region 31st Annual Summit, Calgary, Alberta Canada, July 26, 2022.

Case Studies to Build Rangeland Resilience to Climate Change, Invited Keynote Presentation, 2nd World Congress on Climate Change” Berlin, Germany, September 27, 2019.

Using Genetic Marker Selection to Reduce Asymmetric Information in the U.S. Beef Supply Chain, International Society of Economics and Social Sciences for Animal Health, Atlanta, GA, July 20, 2019.

An Estimate of the Economic Gain from Selection to Reduce BRD Incidence in Dairy Calves. Proceedings 10th World Congress of Genetics Applied to Livestock Production, Vancouver, Canada, August 20, 2014.

Economic Analysis of Anaerobic Co-Digestion Using Dairy Manure and Byproduct Feedstocks, Selected Presentation, 19th International Farm Management Congress, Warsaw, Poland, July 24, 2013.

Cross Hedging Alfalfa to CME Corn Futures Contracts, Invited speaker 2010 Canadian Agricultural Economics Society, Workshop on Risk Management, Robson Square, Vancouver BC, April 12, 2010,

B. National

Grant Writing Fundamentals, Program Evaluation & Risk Management Education for Tribal Producers, Inter-Tribal Agriculture Council Annual Convention, Las Vegas, NV. December 9, 2019.

National Farm Bill Education Conference (Train the Trainer), Extension Risk Management Education, Kansas City, MO, May 22-23, 2019.

Regulatory and Financial Risks Impacting Western Dairy Producers, Western Extension Committee Symposium, Western Agricultural Economics Association, Coeur D' Alene, ID, July 1, 2019.

Financial and Farm Stress – Where Do We Stand?, Ag In Uncertain Times Webinar Moderator, December 18, 2018

Expanding Opportunities for Small Scale Farms in the Specialty Food Market, Ag In Uncertain Times Webinar Moderator, November 14, 2018

Economic motivations and barriers to rancher adoption of restorative grazing practices, PNW Society for Ecological Restoration & Society for Wetland Scientists 2018 Joint Conference, Spokane, WA, October 17, 2018

Writing Fundamentals, Program Evaluation & Risk Management Education for Tribal Producers, Inter-Tribal Agriculture Council Annual Convention, Las Vegas, NV. December 11, 2017.

Challenges and Nuances to Developing Ag Leases in the West, WAEA and WEC Joint Annual Meeting, Lake Tahoe, NV, July 10, 2017.

Effects of Climate Change on Rangeland Management in the PNW, Western Economic Association Annual Conference, San Diego, CA, June 28, 2017.

Economics of Bovine Respiratory Disease, Cattlemen to Cattlemen, Nationally Televised on RFD-TV, National Cattlemen's Beef Association, Filmed at Boise, ID, April 4, 2017.

Risk Management Education Opportunities for FRTEP Programs, Federally Recognized Tribal Extension Program Professional Development Conference, Phoenix AZ, September 14, 2016.

Economic Outlook and Trade Issues for the U.S. Cattle Industry, U.S. Cattlemen's Association Annual Meeting, Billings MT, September 9 2016.

The Value of Genetic Selection in Reducing Economic Losses from Bovine Respiratory Disease Complex in Beef Cattle Feedlots, American Society of Animal Scientists, Salt Lake City UT, July 20, 2016

Dairy Financial Analysis, U.S. Dairy Education and Training Consortium, Clovis New Mexico, June 22-24, 2016

Lamb 300 Workshop, Pricing and Marketing Lambs, Dixon CA, June 9-11, 2016

Risk Management Education Opportunities for Native Americans, National Inter-Tribal Agriculture Council Annual Meeting, Las Vegas NV, December 9, 2015

The Changing Impact of Economics on Managing Bovine Respiratory Disease Complex in Feedlot Cattle, American Association of Bovine Practitioners Annual Meeting, New Orleans, LA, September 18, 2015.

Lamb 300 Workshop, Pricing and Marketing Lambs, Corvallis OR, July 28-30, 2015

Hay and Forage Outlook, Successful Farm Magazine - Top Producer Webinar, March 6, 2015.

Emerging Extension Risk Management Issues, Keynote Presentation, National Farm Business Management Annual Conference, Salt Lake City UT. June 12, 2014.

TAA Overview and Outcomes, AAEA Annual Meeting, Minneapolis MN. August 28, 2014.

Grant Writing Fundamentals, Intertribal Agriculture Council Annual Convention, Las Vegas, NV, December 8, 2014.

TAA Business Consultants Meeting, Clearwater FL, December 10, 2013.

Grant Writing Fundamentals, Intertribal Agriculture Council Annual Convention, Las Vegas, NV, December 9, 2013.

The Effectiveness of LRP Insurance for Feeder Cattle Management, AAEA Extension Session Symposium: Crop Insurance and the Farm Bill: A New Paradigm in U.S, Agriculture Policy, Louisville, KY, October 9, 2013.

Risk Management Issues Facing Beef Cattle Production, ERME Pre-Conference, Denver CO, April 2, 2013.

Keepseagle Tax Clinic Presentations and Tools, WCRME Webinar, February 8, 2013
<http://westrme.wsu.edu/keepseagle-tax-clinic-presentations-and-tools/>.

Managing Drought and Disaster Impacts Webinar Series: Drought Impacts on Livestock and Feed Markets November 20 2012; Tax and Financial Risks Due to Drought and Disaster December 7, 2012, Drought Outlook 2013 January 22 2013. AAEA Extension Section and Ag in Uncertain Times, <http://www.farmmanagement.org/aginuncertaintimesenglish/>.

Effective Programs for Hispanic and Native American Producers in the Western U.S. in Response to the Changing Composition of Agricultural Producers, Agricultural and Applied Economics Association, Extension Symposium, AAEA Annual Meeting Seattle WA, August 13, 2012.

AAEA Agricultural Extension Tour, AAEA Annual Meeting Seattle WA, August 11, 2012.

Top Challenges Facing Agriculture in the Next Five Years, Invited Speaker, Coalition of Agricultural Mediation Programs Annual Conference Coeur d'Alene, ID June 6, 2012.

Development and Application of an Economic Anaerobic Digester Optimization Model, US Environmental Production Agency AgSTAR Conference, Syracuse, New York March 28, 2012.

Hay Outlook and Situation Webinar Presentation, Ag In Uncertain Times, March 14, 2012, <http://www.farmmanagement.org/aginuncertaintimesenglish/>.

Economic Analysis of BVDV Persistently Infected Prevalence in Washington Beef Herds, ADSA - PSA – AMPA – CSAS-WSASAS – ASAS, Joint Annual Meeting, Denver CO, July 14, 2010.

The Impact of Stochastic Reproductive Efficiency on Economic Returns amongst a Sample of Thoroughbred Mares, Southern Economic Association Annual Meeting, Atlanta, GA, November 21, 2010.

Asparagus Production Economics, USDA Asparagus Trade Adjustment Assistance Program, California Asparagus Growers Association, Stockton CA, December 8, 2010

An Economic Analysis of BVD-PI Incidence in Washington, NACAA National Annual Conference, Selected Presentation, Portland, OR, 09/21/2009.

NPR Market Place Radio Nationally Broadcast radio interview, Livestock Market Situation and Consumer Impacts, 10/14/2009.

C. State

Risk Management Implications for Washington Cattle Producers: Turning Challenges into Opportunities, Washington Cattlemen's Association, Wenatchee, November 11, 2022.

Economic Insights on Washington's Climate Commitment Act and Regulations, Appendix A Seminar Series, Zoom, October 25, 2022.

Economic Conditions and Market Outlook, WSU Extension Washington Swine Information Day 2022, Moses Lake, February 3, 2022.

Farm Bill Information Update for Washington, WSU Extension Outreach: Dayton June 6, Connell Oct. 29, 2019 and Davenport Jan. 13, Walla Walla Jan. 14 and Colfax Jan. 16, 2020.

Case Studies on Building Rangeland Resilience to Climate Change in the Pacific Northwest, WSU Academic Showcase, Pullman, WA, March 28, 2019.

Economic Outlook on Pigs, Feed and Other Economic Impacts, WSU Extension Washington Swine Information Day 2019, Moses Lake, February 1, 2019.

Climate Change Impacts on Livestock and Grazing Systems in the Inland Northwest, Current Topics in Farm and Forest Health, University of Idaho Extension, Orofino, December 13, 2018.

Financial Stewardship – Tax Reform and Ranch Management, Pacific Northwest Stockmanship Stewardship, Pasco WA, October 12-13, 2018.

Expert Testimony Confined Animal Feeding Operations Permit Regulations, Washington State Dairy Federation, Washington Farm Bureau, Puget Soundkeeper Alliance, CARE, et al. vs Department of Ecology, Pollution Control Hearings Board State of Washington, Olympia, May 21-25, 2018.

Pork Pricing and Valuation, Washington Swine Information Day 2018, Moses Lake, February 9, 2018.

Small Farm Book Keeping and Taxes, Spokane Ag Expo Farm Forum, Spokane, February 6, 2018.

Economics of Pasture Management, Pasture Calendar Workshop Series, WSU Extension, Mount Vernon; Hadlock, Olympia, Vancouver, December 5-8, 2017.

The Effectiveness of Livestock Risk Protection Insurance, (with Emily Fogarty WSU IGNITE Student), WA Cattlemen's Annual Convention, Kennewick, November 9, 2017.

Futures and Options: Price Volatility and Risk Management for Cow-Calf Producers WA Cattlemen's Annual Convention, Kennewick, November 9, 2017.

Lamb 300 Grid Pricing and Lamb Valuation, Lamb 300, WSU Extension, Pullman, October 26, 2017.

Budgeting for Meat Processing and Sales, King County Local Meat Marketing and USDA Processing Workshop, Carnation, April 22, 2017.

Financial Risk and Risk Management Options for Wheat, Hay and Cattle, Klickitat Conservation District Meeting, Goldendale, February 21, 2017

Hog and Grain Market Outlook and Managing Risk in volatile Times, Washington Swine Information Day 2017, Moses Lake, February 3 2017

Forage Risk Management Options and Updates, Washington State Hay Growers Conference
Kennewick, January 18, 2017 and NW Hay Growers Meeting, Moses Lake, February 15,
2017

Economics of Organic Hay and Livestock Production, Pre-Conference Washington State Hay
Growers Conference, Kennewick, January 17, 2017

Economics of Grazing Cattle on Cover Crops, 2017 Direct Seed Cropping System
Conference, Kennewick, January 10, 2017

Beef and Forage Outlook, Beef Herd Economics Seminar, Moses Lake, Jan. 6, 2017

Dairy Program Update, NW Washington Research and Extension Center, Mount Vernon,
December 7, 2016

The Economic Contribution of Washington's Beef Industry, Okanogan Cattlemen's Meeting,
Omak, December 3, 2016

Forage Risk Management Options and Updates, Deer Park, December 3, 2016

The Economic Contribution of Washington's Beef Industry, Cattle Producers of Washington
Annual Meeting, Spokane, October 29, 2016

Beef Cattle Economic Outlook, 2016 WSU Cattlemen's Boot Camp, Pasco, April 16, 2016

Hog and Grain Market Outlook and Managing Risk in These Volatile Times, WA Swine
Information Day, Moses Lake, February 4, 2016

Small Farm Book Keeping and Risk Management Options for Small Farms, Ag Expo,
Spokane WA February 3, 2016

The Economic Contribution of Washington's Beef Industry, Rabbaho Bank, Kennewick,
January 21, 2016

Forage Risk Management, Washington Hay Growers Convention, Kennewick, Jan. 20, 2016

Washington Dairy Outlook, Washington Dairy Producers Annual Meeting, Wenatchee,
November 11, 2015

The Economic Contribution of Washington's Beef Industry: Ellensburg Sept. 3 to
Washington Beef Commission; Cle Elum to Washington Cattlemen Association Annual
Meeting, November 12; Cle Elum to Washington Cattle Feeders November 12, 2015

Pacific Northwest Forage Outlook, Idaho Forage Workshop, Fraser ID, May 14, 2015

Farm Bill Sign-up Workshops, Fairfield 1/13/15, Spokane 2/23/15, Yakima, 3/11/15

Small Farm Book Keeping and Management, Ag Expo, Spokane WA February 3, 2015

Pork Pricing and Valuations, WA Swine Information Day, Moses Lake, February 6, 2015

Beef 200, WSU Extension, Stanwood WA, January 23-24, 2014

Profiting With Livestock, Stanwood Country Expo, Stanwood WA, January 25, 2014

WSU Swine Information Day, Moses Lake, WA, February 7, 2014.

Beef 300, WSU Extension, Pullman WA, May 20-22, 2014

WSU Cattlemen Conference, Yakima WA June 13-14, 2014.

2014 Farm Bill Dairy Margin Protection Program – Delivered at 10 sites in WA.

2014 Farm Bill Commodity Programs – Delivered at 5 sites in WA.

Preconditioning Calves, BRD Education Series, Cattlemen’s College Washington
Cattlemen’s Association Annual Convention, Pasco, WA, November 13, 2013.

Pork Grid Pricing and Valuation, Pork 300 WSU Extension, Pullman WA, June 21-22, 2013.

Record Keeping and Business Planning, Lamb 100, WSU Extension, Stanwood WA, May
19-18, 2013.

Keepseagle Tax Implications Workshop, Yakima Indian Reservation, Toppenish WA, March
12, 2013.

Evaluating and Negotiating Leases as the Risk in Agriculture Increases, Spokane Ag Expo
Pacific Northwest Farm Forum, Spokane, WA, February 5, 2013.

2013 Economic Outlook for Pigs and Feed, WSU Extension Swine Information Day, Moses
Lake, WA, February 1, 2013.

Lamb 200, WSU Extension, Pullman WA, Stanwood, WA, January 25-26, 2013.

Economic Considerations in Developing Cost of Production Estimates, Country Natural Beef
Annual Meeting, Boise, ID, January 16, 2013

Grid Pricing and Lamb Valuation, Shepherd’s Information Day, Spokane, WA, December 8,
2012.

Lamb 300, WSU Extension, Pullman WA, October 18-19, 2012.

Dairy Risk Management Strategies, WSVMA 101st Annual Conference Yakima
Washington, September 28-29, 2012.

Economic Considerations of Culling Dairy Cows in Washington, WSVMA 101st Annual Conference Yakima WA, September 28, 2012.

Beef 300, WSU Extension, Pullman WA, May 16-19, 2012.

Beef Lamb Poultry 100, WSU Extension, Spokane WA, March 9-10, 2012.

Beef 200, WSU Extension, Omak WA, February 10-11, 2012.

Small Farm Book Keeping and Taxes, Spokane Ag Expo Farm Forum, February 9, 2012.

Analyzing and Negotiating Agricultural Leases – Applications for Developing Equitable Leases, Spokane Ag Expo Farm Forum, February 8, 2012.

Beef 300, WSU Extension, Pullman WA, 1/5/2011 to 1/8/2011.

Beef Cattle Production Performance Targets, Country Living Expo & Cattlemen's Winter School, Stanwood, WA, January 30, 2010.

An Economic Analysis of BVDV-PI Prevalence in Washington Cattle Herds, Klickitat Co. Cattle Producers' Education Program, Goldendale, WA, DVD Presentation produced at WSU, February 19, 2010.

Anaerobic Digesters Carbon Credits and the Proposed Cap and Trade Bills, Webinar, Livestock Nutrient Management Group, <http://breeze.wsu.inm>, March 24, 2010.

2010 Hay Situation and Outlook, Walla Walla Hay Growers Meeting, Walla Walla, WA, April 29, 2010.

Risk Management Strategies and Revenue Insurance Programs for Washington Livestock Producers, WSU Extension Research Webinars: Research that Works for You, <http://ext.wsu.edu/pd/Researchforyou.htm>, June 2, 2010.

How to Economically Optimize and Anaerobic Digester, Qualco Field Day, WSU Livestock Nutrient Management Program, Monroe WA, July 30, 2010.

Lamb 100, WSU Extension, Sumner WA, 10/1/2010 to 10/2/2010.

Short Course in Sustainable Livestock Production, USDA AFRI Beginning Farmer and Rancher Program, Key Peninsula, WA, October 23, 2010.

Determining the Impacts of BSE International Trade Restrictions and Other Economic Policies on Washington Cull Cow Price, Washington Cattlemen's Association Annual Convention, Cle Elum, WA, November 12, 2010.

CRP Economics and Land Use Opportunities for Expiring CRP Contracts in South Eastern Washington, 2010 WSU—UI Cereal Grain Update, Clarkston, WA, December 10, 2010

Beef 300, Pullman WA 1/7/2009 to 1/9/2009.

How to Survive and Be Profitable in the Beef Business: Process Verified Systems and Mandatory Country of Origin Labeling, Cattlemen Association Meetings,
1/15/2009 Goldendale
1/17/2009 Omak
3/23/2009 Clarkston

Economic Outlook for Pigs, Pork and Feed Cost and Mandatory Country of Origin Labeling, Annual Pork Producers Meeting, Pasco, WA, 2/6/2009.

2009 Hay Situation and Outlook, Walla Walla Hay Growers Meeting, 04/30/2009.

How to be Profitable and Survive in the Beef Business: Planned Grazing and Grass-Fed Beef Production, Ag Pilots Planned Grazing Conference, Richland, WA, 05/19/2009.

Economic Analysis of Mechanized Asparagus Field Trial, Asparagus Growers Field Day, Pasco WA, 08/06/2009.

Lamb 300, Pullman WA 10/01/2009 to 10/03/2009

Asparagus Production Economics, Mechanical Harvesting and Trade, Vegetable Growers Association Annual Meeting, Kennewick WA, 11/11/2009.

An Economic Analysis of BVD-PI Incidence in Washington, Washington Cattlemens Annual Convention, Pasco, WA, 11/12/2009.

Women in Agriculture Workshop Series, Leases – Economic, Tax and Legal Issues,
11/30/2009 Spokane
12/09/2009 Goldendale

Cap and Trade Carbon Market – Overview and Agriculture Carbon Offset Opportunities, WSU Nutrient Management Webinar Series, 12/01/2009.

Farm Leases – Economic, Tax and Legal Issues, Surviving as a Grain Farm in Tough Economic Times, Asotin and Columbia County Workshop, Clarkston, WA, 12/9/2008.

Washington Hay Market Review and Outlook, North East Washington Hay Growers Association, Annual Meeting, Clayton WA, 12/6/2008

Unit Cost of Production: The Measuring Stick of Beef Production, Washington Cattlemen's Association Convention, Pasco WA, 11/14/2008.

Cow-Calf Herd Notebook: How to Use This Notebook Effectively to Enhance Your Operation, Washington Cattlemen's Association Convention, Pasco WA, 11/13/2008.

Increased Input Cost Impact on Farm Leases, American Society of Farm Managers and Rural Appraisers, Northwest Chapter Fall Meeting, Spokane, WA, 10/3/2008.

Central Washington Livestock and Hay Market Outlook, Ag. Professional Group Meeting, Pasco WA, 4/17/2008.

Beef Market Outlook and Managing for Profit, Central Washington Beef Information Day, Ellensburg, WA, 2/19/2008.

Economics and Marketing for Tomorrow's Beef Industry, Okanogan Beef Information Days, Omak WA, 1/21/2008.

2008 Washington State Hay Situation Report, Washington State Hay Growers Association, Kennewick, WA, 1/17/2008.

Developing and Maintaining a Business Mentality, 2008 American Angus Association Boot Camp, Pullman, WA, 1/3/2008

SES 2007 Annual Conference on Economic Issues and Outlook, Livestock Outlook, Pasco, WA 12/6/2007.

Estate Planning and Transfer, Washington Grape Growers Society, Prosser, WA, 11/18/2007.

Morbidity, Mortality and Performance: BVD Economic Costs, Washington Cattlemen's Association, Pasco, WA, 11/8/2007.

The Economic Impact of Washington Dairy Farms, Washington Dairy Federation's Annual Meeting, Olympia, WA, 10/24/2007.

Beef 300, Extension Workshop, Pullman, WA, 10/3/2007.

Business Plan Basics, Meat Goat Producer Group Seminar Series,, Prosser and WallaWalla, WA, 5/5/2007 and 9/29/2007.

2007 Central Washington Hay Outlook, Tri Cities Ag Professionals Association, Pasco, WA, 3/15/2007.

Overview of Economic Issues Facing the Swine Industry, Whitman County Swine Producers, 2/22/2007.

Economics and Marketing of Grass-Fed Beef, Spokane Ag. Expo, 2/6/2007.

You Manage What You Measure: Cow-Calf Business Management, Colfax Cattlemen's Association, Colfax, WA, 1/23/2007.

2007 Washington State Hay Situation Report, Washington State Hay Growers Association, Kennewick, WA, 1/18/2007.

Meeting the Needs of Animal Agriculture in the Pacific Northwest, Statewide Extension Workshop, Pullman, WA, 1/3/2007.

OTHER CREATIVE ACTIVITIES

Web Pages – Western Center Risk Management Education <http://westrme.wsu.edu/>

UNIVERSITY INSTRUCTION

A. Credit Courses Taught

EconS 305, Theory of the Firm and Market Policy, Spring 2006 to 2008, WSU
EconS 451, Advanced Agricultural Marketing, Spring 2006 to 2008, WSU
EconS 335, Business Finance Economics, Spring 2009 to 2011, WSU
EconS 352, Business Management Economics, Spring 2010 to 2011, WSU

PROFESSIONAL SERVICE

A. University

Research Integrity Committee, Office of Vice President of Research, 2016.

SES Awards Committee, 2016-2017.

Faculty Senate Representative, Eastern Extension District, 2010 – 2012.

SES Undergraduate Curriculum Committee, 2006-2012.

B. Review Activities

USDA NIFA Federally Recognized Tribes Extension Program, Grant Review Panel, 2017

Determinant of Weanling Thoroughbred Auction Prices, *Journal of Agricultural and Applied Economics*, 2017

USDA NIFA Alfalfa and Forage Research Program Grant Review Panel, 2016

WSU Extension Fast Track: Cost of Establishing, Producing and Packing Organic Red Delicious Apples in WA; Wheat and Canola Rotations in Eastern Washington Low Rainfall Regions; Wheat and Canola Rotations in Eastern Washington Intermediate Rainfall, 2015

WSU Extension Fast Track: On-Farm Co-digestion in the Pacific Northwest: Project Considerations; Calculation of Fair Pasture Rates, 2014

WSU Extension Fast Track: Transitioning from Crop Share to Cash Rent Leases; Water Stress for Reduced Cos of Production of Native Spearmint Oil, 2013.

WSU Extension Fast Track: Understanding the Difference Between Water Price, Value and Cost, 2012.

Cost Benefit Analysis of Addressing Rural Diffuse Pollution through the FarmFLOW Framework, *Australian Journal of Agricultural and Resource Economics*, 2012

Book Review, "Risk Navigator SRM", CRC Press, Taylor and Francis Group, 2009

Recreational and Urban Influences on Agricultural Land Values, *Ag. Finance Review*, 2008

Hedonic Pricing Models for Australian Thoroughbred Yearlings *Australian Journal of Agricultural and Resource Economics*, 2008

What Value do Nevada's Horse Owners Place on Cool Season Hay Characteristics? University of Nevada's Extension Fact Sheet, 2007

LMIC Fact Sheet, LM-2, Alternative Marketing Arrangements in the Beef Industry: Definition, Use, and Motives, Livestock Marketing Information Center, 2007

PROFESSIONAL & SCHOLARLY ORGANIZATIONS

American Association of Agricultural Economists

PROFESSIONAL DEVELOPMENT

Risk Modeling With Simetar, College Station Texas, May 14-18, 2018

Livestock Marketing Information Center, International Beef Industry Study Brazil, 2016.

ESRI GIS Users Conference, San Diego, 2016.

Livestock Marketing Information Center, Technical Advisory Committee Meeting, 2008-2017.

Livestock Marketing Information Center, International Beef Industry Study, Argentina, 2007.

Office of Research Faculty Development Series (FDS), The Productive Proposal Writing Track Workshop, 2007.