

Nathan P. Hendricks

Department of Agricultural Economics
Kansas State University
Manhattan, KS 66506

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EDUCATION

2011 Ph.D. University of California, Davis, Agricultural & Resource Economics
2007 M.S. Kansas State University, Agricultural Economics
2005 B.S. Kansas State University, Agricultural Economics

POSITIONS

2020 to present Professor, Department of Agricultural Economics,
Kansas State University
2016 to 2020 Associate Professor, Department of Agricultural Economics,
Kansas State University
2011 to 2016 Assistant Professor, Department of Agricultural Economics,
Kansas State University

HONORS AND AWARDS

Outstanding *AEPP* Article Award. Agricultural & Applied Economics Association. 2021.
Outstanding Published Research Award. Western Agricultural Economics Association. 2019.
Outstanding Reviewer for *Environmental Research Letters*. 2016.
Outstanding *AJAE* Article Award. Agricultural & Applied Economics Association. 2015.
Southern Agricultural Economics Association (SAEA) Emerging Scholar Award. 2015.
C-FARE/AAEA 2014 Early Career Professional Leadership Award. 2014.
Outstanding *JARE* Article Award. Western Agricultural Economics Association. 2013.
Gordon A. King Award for Outstanding Dissertation. ARE, UC Davis. 2012.
Outstanding MS Thesis Award, Western Agricultural Economics Association. 2008.
USDA National Needs Fellowship. 2007-2010.

JOURNAL ARTICLES

Lee, J. and N.P. Hendricks. Forthcoming. "Irrigation Decisions in Response to Groundwater Salinity in Kansas." *Journal of Agricultural and Resource Economics*, in press.

Pates, N.J. and N.P. Hendricks. 2021. "Fields from Afar: Evidence of Heterogeneity in United States Corn Rotational Response from Remote Sensing Data." *American Journal of Agricultural Economics* 103(5): 1759-1782.

- Ao, Y.Z., N.P. Hendricks, and L.T. Marston. 2021. "Growing farms and groundwater depletion in the Kansas High Plains" *Environmental Research Letters* 16: 084065.
- Obembe, O., N.P. Hendricks, and J. Tack. 2021. "Decreased Wheat Production in the USA from Climate Change Driven by Yield Losses Rather Than Crop Abandonment." *PLOS ONE* 16(6): e0252067.
- Perez-Quesada, G. and N.P. Hendricks. 2021. "Lessons from Local Governance and Collective Action Efforts to Manage Irrigation Withdrawals in Kansas" *Agricultural Water Management* 247: 106736.
- Taylor, M.R., N.P. Hendricks, G.S. Sampson, and D. Garr. 2021. "The Opportunity Cost of the Conservation Reserve Program: A Kansas Land Example" *Applied Economic Perspectives and Policy* 43(2): 849-865.
- Janzen, J.P., and N.P. Hendricks. 2020. "Are Farmers Made Whole by Trade Aid?" *Applied Economic Perspectives and Policy* 42(2): 205-226. (Outstanding *AEPP* Article Award)
- Yu, J. and N.P. Hendricks. 2020. "Input Use Decisions with Greater Information on Crop Conditions: Implications for Insurance Moral Hazard and the Environment." *American Journal of Agricultural Economics* 102(3): 826-845.
- McKendree, M.G.S., G.T. Tonsor, T.C. Schroeder, and N.P. Hendricks. 2020. "Impact of Retail and Export Demand on United States Cattle Producers." *American Journal of Agricultural Economics* 102(3): 866-883.
- Pates, N. and N.P. Hendricks. 2020. "Additionality from Payments for Environmental Services with Technology Diffusion." *American Journal of Agricultural Economics* 102(1): 281-299.
- Sampson, G.S., N.P. Hendricks, and M. Taylor. 2019. "Land Market Valuation of Groundwater." *Resource and Energy Economics* 58: 101120.
- Drysdale, K.M. and N.P. Hendricks. 2018. "Adaptation to an Irrigation Water Restriction Imposed through Local Governance." *Journal of Environmental Economics and Management* 91: 150-165.
- Nakelse, T., T.J. Dalton, N.P. Hendricks, and M. Hodjo. 2018. "Are Smallholder Farmers Better or Worse Off from an Increase in the International Price of Cereals?" *Food Policy* 79: 213-223.
- Hendricks, N.P. 2018. "Potential Benefits from Innovations to Reduce Heat and Water Stress in Agriculture." *Journal of the Association of Environmental and Resource Economists* 5(3): 545-576. (Outstanding Published Research Award from WAEA)
- Hendricks, N.P. and E. Er. 2018. "Changes in Cropland Area in the United States and the Role of CRP." *Food Policy* 75: 15-23

- Quintana-Ashwell, N.E., J.M. Peterson, and N.P. Hendricks. 2018. "Optimal Groundwater Management under Climate Change and Technical Progress." *Resource and Energy Economics* 51: 67-83.
- Wibowo, R.P., N.P. Hendricks, I. Kisekka, and A. Araya. 2017. "Using a Crop Simulation Model to Understand the Impact of Risk Aversion on Optimal Irrigation Management." *Transactions of the ASABE* 60(6): 2111-2122.
- Tack, J., A. Barkley, and N.P. Hendricks. 2017. "Irrigation Offsets Wheat Yield Reductions from Warming Temperatures." *Environmental Research Letters* 12(11): 114027.
- Embaye, W., N. Hendricks, and N. Lilja. 2017. "Sorghum Research and Poverty Reduction in the Presence of Trade Distortions in Ethiopia." *African Journal of Agricultural and Resource Economics* 12(2): 174-187.
- Hendricks, N.P. and K. Drysdale. 2015. "In-Class Experiment Assesses Empathy for International Hunger and Poverty." *North American Colleges & Teachers of Agriculture Journal* 59(3): 253-258.
- Hendricks, N.P. and A. Smith. 2015. "Grouped Coefficients to Reduce Bias in Heterogeneous Dynamic Panel Models with Small T." *Applied Economics* 47(40): 4335-4348.
- Peterson, J.M., C.M. Smith, J.C. Leatherman, N.P. Hendricks, and J.A. Fox. 2015. "Transaction Costs in Payment for Environmental Service Contracts." *American Journal of Agricultural Economics* 97(1): 219-238.
- Hendricks, N.P., J.P. Janzen, and A. Smith. 2015. "Futures Prices in Supply Analysis: Are Instrumental Variables Necessary?" *American Journal of Agricultural Economics* 97(1): 22-39.
- Hendricks, N.P., S. Sinnathamby, K. Douglas-Mankin, A. Smith, D.A. Sumner, and D.H. Earnhart. 2014. "The Environmental Effects of Crop Price Increases: Nitrogen Losses in the U.S. Corn Belt." *Journal of Environmental Economics and Management* 68(3): 507-526.
- Hendricks, N.P., A. Smith, and D.A. Sumner. 2014. "Crop Supply Dynamics and the Illusion of Partial Adjustment." *American Journal of Agricultural Economics* 96(5): 1469-1491. (Outstanding *AJAE* Article Award)
- Brown, J.C., E. Hanley, J. Bergtold, M. Caldas, V. Barve, D. Peterson, R. Callihan, J. Gibson, B. Gray, N. Hendricks, N. Brunzell, K. Dobbs, J. Kastens, D. Earnhart. 2014. "Ethanol Plant Location and Intensification vs. Extensification of Corn Cropping in Kansas." *Applied Geography* 53:141-148.
- Hendricks, N.P., and D.A. Sumner. 2014. "The Effects of Policy Expectations on Crop Supply, with an Application to Base Updating." *American Journal of Agricultural Economics* 96(3): 903-923.

Hendricks, N.P., J.P. Janzen, and K.C. Dhuyvetter. 2012. "Subsidy Incidence and Inertia in Farmland Rental Markets: Estimates from a Dynamic Panel." *Journal of Agricultural and Resource Economics* 37(3): 361-378.

Hendricks, N.P. and J.M. Peterson. 2012. "Fixed Effects Estimation of the Intensive and Extensive Margins of Irrigation Water Demand." *Journal of Agricultural and Resource Economics* 37(1): 1-19. (Outstanding *JARE* Article Award)

Steward, D.R., J.M. Peterson, X. Yang, T. Bulatewicz, M. Herrera-Rodriguez, D. Mao, and N.P. Hendricks. 2009. "Groundwater Economics: An Object-Oriented Foundation for Integrated Studies of Irrigated Agricultural Systems." *Water Resources Research* 45(5): W05430.

Hendricks, N.P. and L.L. Nalley. 2008. "Who Benefits from Global Agricultural Trade Liberalization? The Case of Wheat and Maize." *Journal of International Agricultural Trade and Development* 4(2): 141-157.

BOOK CHAPTERS

Lusk, J.L., J. Tack, and N.P. Hendricks. 2019. "Heterogeneous Yield Impacts from Adoption of Genetically Engineered Corn and the Importance of Controlling for Weather." In W. Schlenker, ed. *Agricultural Productivity and Producer Behavior*. University of Chicago Press: Chicago, IL.

Hendricks, N.P. 2018. "Waters of the US Rule and Clean Water Act and Cost-Effective Approaches to Water-Quality Improvement." In V.H. Smith, J.W. Glauber, and B.K. Goodwin, eds. *Agricultural Policy in Disarray*, Volume II. American Enterprise Institute: Washington, D.C.

Peterson, J.M. and N.P. Hendricks. 2016. "Economics of Water." In K. Conca and E. Weinthal, eds. *The Oxford Handbook of Water Politics and Policy*. Oxford University Press. DOI: 10.1093/oxfordhb/9780199335084.013.22.

OTHER PUBLICATIONS

Hendricks, N.P., I. Kisekka, V. Sharda, and M. Taylor. 2018. "The Value of Water in GMD 5." Report commissioned by Water Protection Association of Central Kansas. December 20, 2018.

Hendricks, N.P. 2017. "WOTUS Rule and Clean Water Act Fail to Provide Cost-Effective Improvements in Water Quality." American Enterprise Institute.

Lusk, J.L., J. Tack, and N.P. Hendricks. 2017. "Heterogeneous Yield Impacts from Adoption of Genetically Engineered Corn and the Importance of Controlling for Weather" National Bureau of Economic Research Working Paper No. 23519.

GRANTS

- PI, “Distribution of Tariff Losses, Relief, and Recovery Across Diverse U.S. Farms” (\$130,000), Economic Research Service, Cooperative Agreement. September 2021-December 2022.
- PI, “Improving existing methods of IFSA supply forecasting” (\$25,000), Economic Research Service, Cooperative Agreement. September 2021-August 2023.
- Co-PI, “The Impact of Better Access to Foreign Markets on the Returns to U.S. Agriculture” (\$485,599) with Jisang Yu (PI) and Nelson Villoria (Co-PI), USDA-AFRI. May 2020–April 2023.
- Co-PI, “Engineering Research Center for ENgineered Solutions for rUral RESilience--ENSURE: Food, Energy, Environment, and Infrastructure.” (\$99,906) with Stacy Hutchinson (PI), Jan Boll, Melanie Derby, and Troy Gilmore, National Science Foundation Engineering Research Center (ERC) Planning Grant. September 2019-August 2022.
- Co-PI, “NRT-INFEWS: Preparing future leaders: Rural resource resiliency (R3).” (\$2,998,366) with Melanie Derby, Prathap Parameswaran, Matthew Sanderson, Jonathan Aguilar, David Steward, Gaea Hock, Stacy Hutchinson, and Ryan Hansen. National Science Foundation Research Traineeship (NRT). September 2018-August 2023.
- Co-PI, “Marginal Cost of Carbon Abatement through Forest Restoration of Agricultural Land in the Mississippi Delta.” (\$30,000 for KSU) with Kent Kovacs (PI) and Robert G. Height (Co-PI), USDA, Forest Service Cooperative Agreement. September 2017-September 2019.
- Co-PI, “Quantifying the Impact of the Renewable Fuel Standard on America’s Land and Water Resources.” (\$544,500; \$77,000 for KSU) with Holly Gibbs and Tyler Lark (PIs), Jesslyn Brown, Chris Kucharik, and Aaron Smith (Co-PIs), National Wildlife Federation. June 2017-May 2018.
- PI, “Mixed Approaches towards Effective Collective Management of Groundwater Resources.” (\$499,917) with D.R. Steward and J. Zhao (Co-PIs), USDA-AFRI. June 2017–May 2021.
- Consultant, “The Effects of Institutions and Hydrological Conditions on Optimal Management of a Shared Aquifer: A Case Study of the High Plains” (\$34,400 for KSU) Nebraska Hatch Multistate with Karina Schoengold (PI) and Nicholas Brozovic (Co-PI). 2016-2017.
- PI, “The Role of U.S. Agriculture in Global Food and Environmental Security: An Analysis Based on Global Supply Response in the Long Run.” (\$498,396) with A. Smith and N.B. Villoria (Co-PIs), USDA-AFRI. January 2016–December 2018.
- Co-PI, “Effects of Energy and Commodity Prices on Crop Patterns and the Ogallala Aquifer under Alternative Policy Scenarios.” (\$499,976) with C.B. Ariyaratne (PI), J.M. Peterson, N. Quintana Ashwell, B.B. Golden, B.C. Briggeman (Co-PIs), USDA-AFRI. January 2015–December 2018.

PI, “Phase VI: Climate Change and Energy: Basic Science, Impacts, and Mitigation-Supplemental Funding.” (\$41,550) Kansas NSF-EPSCoR. October 2014–September 2015.

Co-PI, “The Effect of Local Water Policy on Kansas Farmers’ Crop Choices, Irrigation Technology and Crop Yield.” (\$5,000) with K. Drysdale (PI), CoBank Research Fellow: Arthur Capper Cooperative Center, Kansas State University. July 2014– June 2015.

Affiliated Faculty Member, “Farmers’ Decisions to Grow Crops for Fuel.” Kansas NSF-EPSCoR. August 2011–September 2014.

CONFERENCE AND INVITED PRESENTATIONS

- 2021 Mississippi State University, Auburn University, Agricultural and Applied Economics Association Annual Meeting
- 2020 Center for Environmental Economics – Montpellier, National Corn Growers Association, Agricultural and Applied Economics Association Annual Meeting, Ag Policy Conference
- 2019 University of Wisconsin, University of Nebraska, National Wildlife Federation, Congressional Briefing (Washington, D.C.), Kansas Department of Agriculture, Agricultural and Applied Economics Association Annual Meeting
- 2018 Utah State University, Agricultural and Applied Economics Association Annual Meeting
- 2017 Purdue University, National Bureau of Economic Research, American Enterprise Institute, The Ohio State University, Heartland Environmental and Resource Economics Workshop, Agricultural and Applied Economics Association Annual Meeting
- 2016 Iowa State University, University of Minnesota, American Enterprise Institute, Agricultural and Applied Economics Association Annual Meeting, Association of Environmental and Resource Economists Annual Summer Conference
- 2015 Oklahoma State University, Agricultural and Applied Economics Association Annual Meeting
- 2014 Michigan State University, Biological and Agricultural Engineering at Kansas State, Agricultural and Applied Economics Association Annual Meeting
- 2013 University of Nebraska, Kansas NSF EPSCoR Annual Meeting, Agricultural and Applied Economics Association Annual Meeting, Western Agricultural Economics Association Annual Meeting

- 2012 University of Illinois, Agricultural and Applied Economics Association Annual Meeting, 18th International Panel Data Conference
- 2011 Agricultural and Applied Economics Association Annual Meeting, Giannini Agricultural and Resource Economics Student Conference
- 2010 Agricultural and Applied Economics Association Annual Meeting, Giannini Agricultural and Resource Economics Student Conference

OUTREACH PRESENTATIONS

Cameron-Harp, M. and N.P. Hendricks. “Carbon Credit Markets: Current Opportunities and Future Prospects” Department of Agricultural Economics, Kansas State University, Manhattan, KS, August 19-20, 2021.

Kurzweil, M. and N.P. Hendricks. “Economic losses from ARC/PLC election choices in the 2014 Farm Bill” Department of Agricultural Economics, Kansas State University, Manhattan, KS, August 14, 2020.

Hendricks, N.P. “Tariffs, Trade, and Farm Commodity Prices.” Farmers Appreciation Night, Farmers State Bank. Westmoreland, KS. November 8, 2019.

Hendricks, N.P. and J. Janzen. “Trade Aid and Conflict.” Risk and Profit Conference, Department of Agricultural Economics, Kansas State University, Manhattan, KS, August 22-23, 2019.

Bowman, W. and N.P. Hendricks. “Volatility of Kansas Farm Incomes.” Risk and Profit Conference, Department of Agricultural Economics, Kansas State University, Manhattan, KS, August 22-23, 2019.

Hendricks, N.P. “The Value of Water in GMD 5.” Water Protection Association of Central Kansas Annual Meeting, February 11, 2019.

Hendricks, N.P. “How Much Do Landlords Benefit from Agricultural Subsidies Versus Tenants?” Risk and Profit Conference, Department of Agricultural Economics, Kansas State University, Manhattan, KS, August 16-17, 2018.

Hendricks, N.P. “GMD 5 LEMA Impacts.” Alliance Ag and Grain, LLC Board Planning Session, Mulvane, KS, January 18, 2018.

Hendricks, N.P. “Machine Learning and Its Implications for Agriculture.” K-State Symposium on Cooperative Issues, Arthur Capper Cooperative Center, Manhattan, KS, August 15-16, 2017.

Hendricks, N.P., E. Er, and M. Taylor. “Better Predictions of Land Values Using Machine Learning.” Risk and Profit Conference, Department of Agricultural Economics, Kansas State University, Manhattan, KS, August 18-19, 2016.

Hendricks, N.P. “Turnin’ Soil: Perspectives on Recent Sodbusting in the United States.” Go See It! Lecture Series. Flint Hills Discovery Center, Manhattan, KS, August 18, 2016.

Hendricks, N.P. “What is Needed for a Successful LEMA?” Presented at Risk and Profit Conference, Department of Agricultural Economics, Kansas State University, Manhattan, KS, August 20-21, 2015.

Drysdale, K. and N.P. Hendricks. “The Effect of Collective Action Water Policy on Kansas Farmers Irrigation Decisions” (Krystal Drysdale presented) Risk and Profit Conference, Department of Agricultural Economics, Kansas State University, Manhattan, KS, August 20-21, 2015.

Hendricks, N.P. and J.M. Peterson. “Getting the Most Value from Limited Irrigation Water.” Governor’s Conference on the Future of Water in Kansas, Manhattan, KS, November 13, 2014.

Hendricks, N.P. and J.M. Peterson. “Getting the Most Value from Limited Irrigation Water.” Risk and Profit Conference, Department of Agricultural Economics, Kansas State University, Manhattan, KS, August 21-22, 2014.

Hendricks, N.P. “World Supply and Demand for Food: An Historical Perspective and Future Prospects.” Risk and Profit Conference, Department of Agricultural Economics, Kansas State University, Manhattan, KS, August 21-22, 2013.

Hendricks, N.P. “World Supply and Demand for Food.” Session for Leadership Kansas, Goodland, KS, July 25, 2013.

POPULAR PRESS INTERVIEWS OR REFERENCES TO RESEARCH

Interviews with Agriculture Today, K-State Radio Network, September 5, 2021; September 4, 2019; August 28, 2019; March 15, 2019; August 15, 2018; June 15, 2017; September 1, 2015; September 4, 2014; May 14, 2012; and November 10, 2011.

The New York Times, Bloomberg, Agri-Pulse, DTN Progressive Farmer, National Public Radio, NBC, Consumer Reports, Circle of Blue, Topeka Capital Journal

TEACHING EXPERIENCE

Instructor, Kansas State University. AGEC 315: “Contemporary Issues in Global Food and Agricultural Systems.” Fall 2011–2012, Spring 2012–2019. Fall 2020-2021.

Instructor, Kansas State University. AGEC 810: “Price, Income and Trade

Policies in Agriculture.” Fall 2013–2015. Spring 2017–2020. Fall 2021.

Co-Instructor (25-33%), Kansas State University. AGEC 936: “Quantitative Topics in Agricultural Economics.” Spring 2013–2021.

Co-Instructor (20%), Kansas State University. AGEC 955 (and cross-listed with other departments): “Introduction to Systems Thinking.” Part of an interdisciplinary curriculum for National Science Foundation Research Traineeships. Fall 2019-2021.

Co-Instructor (10%), Kansas State University. AGEC 955 (and cross-listed with other departments): “NRT Capstone.” Part of an interdisciplinary curriculum for National Science Foundation Research Traineeships. Spring 2021.

Teaching Assistant, University of California-Davis. ARE 106: “Quantitative Methods in Agricultural Economics.” (with Kristiana Hansen), Summer 2008.

Instructor, Kansas State Math Camp for first-year M.S. and Ph.D. students, Fall 2006.

Teaching Assistant, Kansas State University. AGEC 505: “Agricultural Market Structures.” (with Jeffrey Peterson), Spring 2006.

GRADUATE ADVISING

Major Professor

Micah Cameron-Harp, Ph.D., in progress.

Ashling Murphy, M.S., in progress.

Gabriela Perez Quesada, Ph.D., in progress.

Olabisi Ekong, Ph.D., 2021. (co-major with Nelson Villoria)

Emily Parker, M.S., 2021.

Devin Brand, M.S., 2021.

Juhee Lee, Ph.D., 2020.

Krystal Drysdale, Ph.D., 2020.

Chase Ostmeyer, MAB, 2019.

Oladipo Obembe, Ph.D., 2019.

Nicholas Pates, Ph.D., 2018.

Emrah Er, Ph.D., 2018.

Nicolas Quintana-Ashwell, Ph.D., 2017. (co-major with Jeff Peterson)

Frances Bretz, MAB, 2017.

Nathan Bartholomew, MAB, 2017.

Rulianda Wibowo, Ph.D., 2016.

SERVICE

National/Profession

Area Editor, *Journal of the Agricultural and Applied Economics Association*, 2021-current.
Associate Editor, *American Journal of Agricultural Economics*, 2018-current.
AAEA Selected Presentations Committee, 2016-current. (Chair of the committee in 2017-2018, 2019-2020, and 2021-2022)
NIFA Review Panel, Sustainable Agricultural Systems CAP grants, 2020.
NIFA Review Panel, Environment and Natural Resource Economics Programs, 2018.
Chair of AAEA Selected Presentations Committee, 2017-2018.
W3190 Multistate Research Project Secretary, 2016; Vice Chair, 2017; Chair 2018.
AAEA Outstanding Doctoral Dissertation Award Committee, 2015-2017.
Topic Leader for AAEA Selected Presentations, 2014-2015.

Referee service for:

American Journal of Agricultural Economics
Journal of Political Economy
Journal of the Association of Environmental and Resource Economists
Journal of Environmental Economics and Management
Review of Environmental Economics and Policy
Nature Sustainability
Environmental Research Letters
Land Economics
Resource and Energy Economics
Economic Inquiry
Agricultural Economics
Applied Economic Perspectives and Policy
Journal of Agricultural and Resource Economics
Journal of Agricultural and Applied Economics
Agricultural and Resource Economics Review
Water Resources Research
Journal of the American Water Resources Association
PLOS One
Q Open
Precision Agriculture
Water Economics and Policy
Western Association of Agricultural Experiment Station Multistate Research Project
Agricultural and Applied Economics Association annual meeting papers
Western Agricultural Economics Association annual meeting papers

University

Global Food Systems review panel for grant applications, 2019.
Judge for FFA Prepared Public Speaking Career Development Event, 2016.
Judge for FFA Agricultural Business Career Development Event, 2016.
College of Agriculture Student Ambassadors selection committee, 2016.
Global Food Systems review panel for grant applications, 2015.

Department

Graduate committee, 2015- current.

Arthur Capper Cooperative Center Advisory Council, 2016- current.

Awards committee, 2017- current.

Prelim Committee, 2015-2017, 2021-current.

Chair of search committee for Asst/Assoc Professor, 2021.

Seminar committee, 2014-2019.

Chair of search committee for Asst/Assoc Professor, 2019.

Chair of search committee for Asst/Assoc Professor, 2015.

Project Faculty Mentor, Center for Risk Management Education & Research, 2015-2016.

Search committee member for Assistant Professor, 2014.

Search committee member for Assistant Professor, 2013.

(Last updated: January 2022)