CURRICULUM VITAE SEPTEMBER 17, 2024

PAUL DAVID MITCHELL

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EDUCATION

Ph.D. Iowa State University, Ames, Iowa
Economics, (Major in Agricultural Economics): August 1999
Major Professor: Bruce A. Babcock
Dissertation: *The Theory and Practice of Green Insurance: Insurance to Encourage the Adoption of Corn Rootworm IPM*

M.A. University of Wisconsin-Madison, Madison, Wisconsin
Classics, December 1991

B.A. Iowa State University, Ames, Iowa
History, May 1990

ACADEMIC POSITIONS

7/2017 – present	**Professor**, Department of Agricultural and Applied Economics, ***Appointment: 70% Extension, 30% Research, 9-months***
7/2016 – present	**Director**, Renk Agribusiness Institute, UW Madison
8/2023 – 9/2024	**Interim Associate Dean of Academic Affairs**, College of Agricultural and Life Sciences, University of Wisconsin-Madison
1/2012 – 7/2018	**Co-Director**, Nutrient and Pest Management Program, UW Extension
7/2010 – 7/2017	**Associate Professor**, Department of Agricultural and Applied Economics, University of Wisconsin-Madison
8/2004 – 6/2010	**Assistant Professor**, Department of Agricultural and Applied Economics, University of Wisconsin-Madison
8/1999 – 8/2004	**Assistant Professor**, Department of Agricultural Economics, Texas A&M University
6/1994 – 8/1999	**Research Assistant**, Iowa State University, Department of Economics
7/1993 – 6/1994	**Research Assistant**, Iowa State University, Department of Botany
9/1991 – 7/1993	**Graduate Instructor**, University of Wisconsin, Department of Classics

1. PROFESSIONAL HONORS AND AWARDS

2022 Pound Extension Award, UW College of Agricultural and Life Sciences

2019 Vilas Faculty Mid-Career Investigator Award, University of Wisconsin-Madison

2019 American Society of Agronomy Extension Education Community Award, for the Sporebuster mobile app developed at UW, shared with 16 others.

2017 American Society of Agronomy Educational Materials Awards, Certificate of Excellence. Grain Management Considerations in Low-Margin Years, Publications < 16 pages and Audio Visuals. UW Agricultural and Natural Resources Extension Team

2016 Team Workgroup Leadership and Responsiveness Award, University of Wisconsin Agricultural and Natural Resources Extension to the 2014 Farm Bill Delivery Team

2015 Researcher of the Year, Wisconsin Potato and Vegetable Growers Association Awarded for developing a sustainability program for processing vegetables and potatoes

2014 American Society of Agronomy Educational Materials Awards, Certificate of Excellence. Economic Risk and Profitability of Soybean Seed Treatments at Reduced Seeding Rates, Publications < 16 pages, UW ANRE State Specialist Team

2013 Extension Excellence in Audio Visual Award, American Society of Agronomy, National Sustainable Soybean Initiative (NSSI), UW ANRE State Specialist Team

2011 Integrated Pest Management Team Award, Entomology Society of America, Awarded to the European Corn Borer IPM Team, a multi-state collaboration among land grant, state, and industry researchers and extension specialists

2007 Professional Achievement Alumni Award, Department of World Languages and Cultures, Iowa State University

2002 Texas A&M University, Measurement and Research Service, Top 25% "Most Effective" faculty teaching a 600-level course, fall semester, designation for AGEC 672.

1992 & 1991 Heironimus Prize in Greek Prose Composition, Classics Department, UW-Madison

1992 Pillinger Prize in Latin Prose Composition, Classics Department, UW-Madison

1990 Wisconsin Alumni Research Foundation Fellowship, Graduate fellowship to attend UW-Madison, Classics Department

1989 Albert L. Walker Excellence in English Award, English Department, Iowa State University

Honor Societies: Phi Beta Kappa, Gamma Sigma Delta, Phi Kappa Phi.

2. RESEARCH

A. Refereed Journal Articles

1. Bekken, M., P.D. Mitchell, and D. Soldat. 2024. An eco-efficiency model for golf. *Agricultural Systems* https://doi.org/10.2139/ssrn.4815820.
2. Bekken, M., P.D. Mitchell, and D. Soldat. 2024. Determining the effectiveness of golf course resource efficiency best management practices. *Ecological Indicators* https://doi.org/10.1016/j.ecolind.2024.112311.
3. Dong, F., and P.D. Mitchell. 2023. Economic and risk analysis of sustainable practice adoption among U.S. corn growers. *Agricultural Systems* 211:103730 https://doi.org/10.1016/j.agsy.2023.103730.
4. Mourtzinis, S., P.D. Mitchell, P. Esker, A. Cerrudo, S. Naeve, S. Conley. 2023. Field-level yield benefits and risk effects of intensive soybean management across the US. *Field Crops Research* 301:109012. https://doi.org/10.1016/j.fcr.2023.109012.
5. Yue, C., Y. Lai, J. Wang, P.D. Mitchell. 2020. Consumer Preferences for Sustainable Product Attributes and Farm Program Features. *Sustainability* 12(18), 7388. https://doi.org/10.3390/su12187388.
6. Saikai, Y, T.M. Hurley, and P.D. Mitchell. 2020. An agent-based model of insect resistance management and mitigation for Bt maize: A social science perspective. *Pest Management Science* https://doi.org/10.1002/ps.6016.
7. Hurley, T.M., and P.D. Mitchell. 2020. The Value of Insect Management to U.S. Maize, Soybean and Cotton Farmers. *Pest Management Science* 76:4159-4172.
8. Saikai, Y, V. Patel, P.D. Mitchell. 2020. Machine learning for optimizing complex site-specific management. *Computers and Electronics in Agriculture* 174: 105381 https://doi.org/10.1016/j.compag.2020.105381.
9. Smail, R., A.H. Pruitt, P.D. Mitchell, and J.B. Colquhoun. 2019. Cumulative Deviation from Moving Mean Precipitation as a Proxy for Groundwater Level Variation in Wisconsin. *Journal of Hydrology X*. 5: 100045 https://doi.org/10.1016/j.hydroa.2019.100045.
10. Jones, M.S., J.A. Delborne, J. Elsensohn, P.D. Mitchell, and Z.S. Brown. 2019. Does the US public support using gene drives in agriculture? And what do they want to know? *Science Advances* 5(9):eaau8462 DOI: 10.1126/sciadv.aau8462
11. Wilbur, J.F., P.D. Mitchell, M. Fall, A. Byrne, S. Chapman, C. Floyd, C. Bradley, K. Ames, M. Chilvers, N. Kleczewski, D. Malvick, B. Mueller, D. Mueller, M. Kabbage, S. Conley, and D.L. Smith. 2019. Meta-analytic and economic approaches for evaluation of pesticide impact on Sclerotinia stem rot control and soybean yield in the North Central U.S. *Phytopathology* https://doi.org/10.1094/PHYTO-04-18-0124-R.
12. Mitchell, P.D., Z. Brown, and N. McRoberts. 2018. Economic issues to consider for gene drives. *Journal of Responsible Innovation* 5:sup1, S180-S202, DOI: 10.1080/23299460.2017.1407914 https://doi.org/10.1080/23299460.2017.1407914.
13. Weil, R.J., E.M. Silva, J. Hendrickson, and P.D. Mitchell. 2017. Time and technique studies for assessment of productivity on diversified organic vegetable farms. *Journal of Agriculture, Food Systems, and Community Development*. http://dx.doi.org/10.5304/jafscd.2017.074.007.
14. Mitchell. P. 2017. Keynote Summary: Black swans, dragons and the phoenix: rebuilding citrus after HLB. *Journal of Citrus Pathology* 4(1). iocv_journalcitruspathology_35112. Online: https://escholarship.org/uc/item/7c52n0rg.
15. Silva, E.M., J. Hendrickson, P.D. Mitchell, and E. Bietila. 2017. From the Field: A Participatory Approach to Assess Labor Inputs on Organic Diversified Vegetable Farms in

the Upper Midwestern USA. *Renewable Agriculture and Food Systems* DOI: 10.1017/S1742170517000266.
16. Hurley, T.M., and P.D. Mitchell. 2016. Value of Insecticide Seed Treatments to U.S. Soybean Farmers. *Pest Management Science* 73:102-112.
17. Moore, V.M., P.D. Mitchell, E.M. Silva, and B.L. Barham. 2016. Cover Crop Adoption and Intensity on Wisconsin's Organic Vegetable Farms. *Agroecology and Sustainable Food Systems* 40(7):693-713.
18. Dong, F., P.D. Mitchell, V. Davis and R. Recker. 2016. Impact of Atrazine Prohibition on the Sustainability of Weed Management in Wisconsin Corn Production. *Pest Management Science* doi: 10.1002/ps.4298.
19. Dong, F., P.D. Mitchell, T. Hurley and G. Frisvold. 2016. Quantifying Adoption Intensity for Weed Resistance Management Practices and Its Determinants among U.S. Soybean, Corn, and Cotton Farmers. *Journal of Agricultural and Resource Economics* 41(1):42-61.
20. Dong, F., P.D. Mitchell, D. Knuteson, J. Wyman, A.J. Bussan, and S. Conley. 2015. Assessing Sustainability and Improvements in U.S. Midwestern Soybean Production Systems Using a PCA-DEA Approach. *Renewable Agriculture and Food Systems* doi:10.1017/S1742170515000460.
21. Tinsley, N, P.D. Mitchell, R. Wright, L. Meinke, R. Estes, M. Gray. 2015. Estimation of Efficacy Functions for Products Used to Manage Corn Rootworm Larval Injury. *Journal of Applied Entomology* doi: 10.1111/jen.12276.
22. Milne, A.M, J.R. Bell, W.D. Hutchison, F. van den Bosch, P.D. Mitchell, D. Crowder, S. Parnell, and A.P. Whitemore. 2015. The effect of farmers' decisions on pest control with Bt crops: a billion dollar ecology game. *PLoS Computational Biology* 11(12): e1004483. doi:10.1371/journal.pcbi.1004483.
23. Andow, D.A., S.G. Pueppke, A.W. Schaafsma, A.J. Gassman, T.W. Sappington, L.J. Meinke, P.D. Mitchell, T.M. Hurley, R.L. Hellmich, and R.P. Porter. 2015. Early Detection and Mitigation of Resistance to Bt Maize by Western Corn Rootworm (Coleoptera: Chrysomelidae). *Journal of Economic Entomology* 109:1-12.
24. Recker, R.A., J.G. Lauer, D.E. Stoltenberg, P.D. Mitchell, and V. M. Davis. 2015. Does Timing Influence the Utility of Reduced Atrazine Rates for Proactive Resistance Management? *Weed Technology* 29:464-471.
25. Recker, R.A., P.D. Mitchell, D.E. Stoltenberg, J.G. Lauer, and V.M. Davis. 2015. Late-season Weed Escape Survey Reveals Discontinued Atrazine Use Associated with Greater Abundance of Broadleaf Weeds. *Weed Technology* 29:451-463.
26. Gaspar, A.P., P.D. Mitchell, and S.P. Conley. 2015. Economic Risk and Profitability of Soybean Seed Treatments at Reduced Seeding Rates. *Crop Science* 55:924-933.
27. Dong, F., P.D. Mitchell, and J. Colquhoun. 2015. Measuring Farm Sustainability Using Data Envelope Analysis with Principal Components: The Case of Wisconsin Cranberry. *Journal of Environmental Management* 147:175-183.
28. Silva, E., F. Dong, P.D. Mitchell, and R. Claypool. 2015. Impact of marketing channels on perceptions of quality of life and profitability for Wisconsin's organic vegetable farmers. *Renewable Agriculture and Food Systems* 30:428-438.
29. Mitchell, P.D. 2014. Market-level assessment of the economic benefits of atrazine in the United States. *Pest Management Science* 70:1684-1696.

30. Silva, E.M., R. Claypool, J. Munsch, J. Hendrickson, P.D. Mitchell, and J. Mills. 2014. Veggie Compass: A Spreadsheet-Based Tool to Calculate Cost-of-Production for Diversified Organic Vegetable Farmers. *Hort Technology* 24: 394-402.
31. Rejesus, R.M., M. Mutuc-Hensley, P.D. Mitchell, K.H. Coble, and T.O. Knight. 2013. U.S. Agricultural Producer Perceptions of Climate Change. *Journal of Agricultural and Applied Economics* 45:701-718.
32. Mitchell, P.D., R. Rejesus, K.H. Coble, T.O. Knight. 2012. Analyzing Farmer Participation Intentions and Enrollment Rates for the Average Crop Revenue Election (ACRE) Program. *Applied Economics Perspectives and Policy* 34:615-636. doi:10.1093/aepp/pps038.
33. Goeser, N, P.D. Mitchell, P. Esker, D. Curwen, G. Weis, and A.J. Bussan. 2012. Modeling Long-term Trends in Potato Growth and Development in Wisconsin. *Agronomy* 2:14-27. doi:10.3390/agronomy2010014.
34. You, W., P.D. Mitchell, and R. Nayga. 2012. Improving Food Choices among Supplemental Nutrition Assistance Program Recipients. *Health Economics* 21:852-864. doi:10.1002/hec.1758.
35. Onstad, D.W., P.D. Mitchell, T.M. Hurley, J.G. Lundgren, R.P. Porter, C.H. Krupke, J.L. Spencer, C.D. DiFonzo, T.S. Baute, R.L. Hellmich, L. Buschman, W.D. Hutchison, and J.F. Tooker. 2011. Seeds of Change: Corn Seed Mixtures for Resistance Management and IPM. *Journal of Economic Entomology* 104:343-352.
36. Hutchison, W.D., E.C. Burkness, P.D. Mitchell, R.D. Moon, T.W. Leslie, S.J. Fleischer, M. Abrahamson, K.L. Hamilton, K.L. Steffey, M.E. Gray, R.L. Hellmich, L.V. Kaster, T.E. Hunt, R.J. Wright, K. Pecinovsky, T.L. Rabaey, B.R. Flood, and E.S. Raun. 2010. Areawide Suppression of European Corn Borer with Bt Maize Reaps Savings to Non-Bt Maize Growers. *Science* 330:222-225.
37. Dillen, K., P.D. Mitchell, T. Van Looy, and E. Tollens. 2010. The Western Corn Rootworm, A New Threat to European Agriculture: Opportunities for Biotechnology? *Pest Management Science* 66:956-966.
38. Dun, Z., P.D. Mitchell, and M. Agosti. 2010. Estimating *Diabrotica virgifera virgifera* Damage Functions with Field Data: Applying an Unbalanced Nested Error Component Model. *Journal of Applied Entomology* 134:409-419.
39. Dillen, K., P.D. Mitchell, and E. Tollens. 2010. On the Competitiveness of *Diabrotica virgifera virgifera* Damage Abatement Strategies in Hungary: a Bio-economic Approach. *Journal of Applied Entomology* 134:395-408.
40. Frisvold, G., T. Hurley, and P.D. Mitchell. 2009. Adoption of Best Management Practices to Control Weed Resistance by Cotton, Corn, and Soybean Growers. *AgBioForum* 12:370-381.
41. Hurley, T.M., P.D. Mitchell, and G. Frisvold. 2009. Effects of Weed Resistance Concerns and Resistance Management Practices on the Value of Roundup Ready® Crops. *AgBioForum* 12:291-302.
42. Hurley, T.M., P.D. Mitchell, and G. Frisvold. 2009. Weed Management Costs, Weed Best Management Practices, and The Roundup Ready® Weed Management Program. *AgBioForum* 12:281-290.
43. Hurley, T.M., P.D. Mitchell, and G. Frisvold. 2009. Characteristics of Herbicides and Weed Management Programs Most Important to Corn, Cotton, and Soybean Growers. *AgBioForum* 12:269-280.
44. Frisvold, G.F., T.M. Hurley, and P.D. Mitchell. 2009. Overview: Herbicide Resistant Crops – Diffusion, Benefits, Pricing and Resistance Management. *AgBioForum* 12:244-248.

45. Hsieh, M.-F., P.D. Mitchell, K.W. Stiegert. 2009. Potato Demand in an Increasingly Organic Marketplace. *Agribusiness: An International Journal* 25:369-394.
46. Mitchell, P.D., and T.O. Knight. 2008. Economic Analysis of Supplemental Deductible Coverage as Recommended in the USDA's 2007 Farm Bill Proposal. *Agricultural and Resource Economics Review* 37:117-131.
47. Seo, S., E. Segarra, P.D. Mitchell, and D.J. Leatham. 2008. Irrigation Technology Adoption and Its Implication for Water Conservation in the Texas High Plains: A Real Options Approach. *Agricultural Economics* 38:47-55.
48. Bussan, A.J., P.D. Mitchell, M.E. Copas, and M.J. Drilias. 2007. Evaluation of the Effect of Density on Potato Yield and Tuber Size Distribution. *Crop Science* 47:2462-2472.
49. Mitchell, P.D., and D.W. Onstad. 2005. Effect of Extended Diapause on the Evolution of Resistance to Transgenic *Bacillus thuringiensis* Corn by Northern Corn Rootworm. *Journal of Economic Entomology* 98:2220-2234.
50. Mueller, T.C., P.D. Mitchell, B.G. Young, and A.S. Culpepper. 2005. Proactive versus Reactive Management of Glyphosate-Resistant or Tolerant Weeds. *Weed Tech.* 19:924-933.
51. Seo, S., P.D. Mitchell, and D. Leatham. 2005. Effects of Federal Risk Management Programs on Optimal Acreage Allocation and Nitrogen Use in a Texas Cotton-Sorghum System. *Journal of Agricultural and Applied Economics* 37:685-699.
52. Crowder, D.W., D.W. Onstad, M.E. Gray, P.D. Mitchell, J.L. Spencer, and R.J. Brazee. 2005. Economic Analysis of Dynamic Management Strategies Utilizing Transgenic Corn for Control of Western Corn Rootworm. *Journal of Economic Entomology* 98:961-975.
53. Mitchell, P.D. 2004. Nutrient Best Management Practice Insurance and Farmer Perceptions of Adoption Risk. *Journal of Agricultural and Applied Economics* 36:657-673.
54. Mitchell, P.D., M.E. Gray, and K.L. Steffey. 2004. A Composed Error Model for Estimating Pest-Damage Functions and the Impact of the Western Corn Rootworm Soybean Variant in Illinois. *American Journal of Agricultural Economics* 86:332-344.
55. Hurley, T.M., P.D. Mitchell, and M E. Rice. 2004. Risk and the Value of Bt Corn. *American Journal of Agricultural Economics* 86:345-358.
56. Onstad, D.W., D.W. Crowder, P.D. Mitchell, C.A. Guse, J.L. Spencer, E. Levine, and M.E. Gray. 2003. Economics versus Alleles: Balancing IPM and IRM for Rotation-Resistant Western Corn Rootworm. *Journal of Economic Entomology* 96:1872-1885.
57. Mitchell, P.D. 2003. Value of Imperfect Input Information in Agricultural Production. *Agricultural Systems* 75:277-294.
58. Mitchell, P.D., T.M. Hurley, B.A. Babcock, and R.L. Hellmich. 2002. Insuring the Stewardship of Bt Corn: A Carrot versus a Stick. *Journal of Agricultural and Resource Economics* 27:390-405.
59. Alston, J.M., J. Hyde, M.C. Marra, and P.D. Mitchell. 2002. An Ex Ante Analysis of the Benefits from the Adoption of Corn Rootworm Resistant, Transgenic Corn Technology. *AgBioForum* 5:71-84.
60. Mitchell, P.D., and W. Riedell. 2001. Stochastic Dynamic Population Model for Northern Corn Rootworm *Diabrotica barberi*. *Journal of Economic Entomology* 94:599-608.
61. Crumpton, W. G., T.M. Isenhart and P.D. Mitchell. 1992. Nitrate and Organic N Analyses with Second-Derivative Spectroscopy. *Limnology and Oceanography* 37:907-913.

B. In Review/Progress

1. Mitchell, Wang, Ruark. 202X. Estimating the potato tuber size distribution to optimize nitrogen fertilizer. In review at *Field Crops Research*.

C. Book Chapters (last ten years)

1. Mitchell, P.D., and D.W. Onstad. 2022. Valuing Pest Susceptibility to Control. D.W. Onstad, ed. *Insect Resistance Management: Biology, Economics, and Prediction, 3rd ed.* San Diego, CA: Academic Press, pp. 31-59.
2. Hurley, T.M., P.D. Mitchell, and H. Sun. 2022. Insect Resistance Management: Adoption and Compliance. D.W. Onstad, ed. *Insect Resistance Management: Biology, Economics, and Prediction, 3rd ed*. San Diego, CA: Academic Press, pp. 493-525.
3. Chavas, J.P., and P.D. Mitchell. 2018. Corn Productivity: The Role of Management and Biotechnology. *Corn*, London: InTech. Online: https://www.intechopen.com/books/corn-production-and-human-health-in-changing-climate/corn-productivity-the-role-of-management-and-biotechnology.

D. Funded Research Projects (last ten years)

1. Improving Central Sands groundwater quality to ensure a vibrant future for agriculture, rural living and surrounding ecosystems. Co-PI, Three-year (2023-2026) Rural Partnership Institute intramural competitive grant for $1,000,000
2. Enhancing integrated insect pest management strategies for U.S. potato production systems. Co-PI. Four-Year (2023-2027) USDA SCRI CAP grant for $6 million.
3. Identifying Optimal Soybean and Corn Planting Priority Windows for Wisconsin. PI. One-Year (2023-2024) Wisconsin Soybean Marketing Board grant for $65,000.
4. Organic Data Collection Gap Analysis. Co-PI. One year (2023) USDA Agricultural Marketing Service non-competitive contract for $96,000.
5. Sweet CAP: Integrated technologies to improve sweet corn breeding, production and marketability. Co-PI. Four-Year (2022-2026) USDA SCRI CAP grant for $7.5 million.
6. HayAdvisor: A web-based cyber-platform to estimate alfalfa yield and quality to support harvest scheduling. Co-Principal Investigator. Three-Year (2020-2023) USDA Alfalfa Forage Research Program grant for $600,000.
7. Developing a Module of Economic Returns to Nitrogen for Managing Both Yield and the Tuber Size Profile for Fresh Market Russets. PI. One-Year (2021) Wisconsin Potato and Vegetable Growers Association (WPVGA) grant for $15,000.
8. Wisconsin DNR Groundwater Quality Comprehensive Assessment of the Economic Impact. PI. Two-Year (2020-2021) Wisconsin DNR non-competitive contract for $43,500.
9. Retail Competition, Marketing, and Opportunities for Organic Food in the Upper Midwest. Co-PI. Three-Year (2021-2023) Wisconsin Consortium for Organic Research and Education Research (WisCORE) grant for $138,000.
10. Financial Management Tools for Industrial Hemp Growers in Wisconsin. Co-PI. Two-Year (2020-2022) UW Consortium for Extension and Research in Agriculture and Natural Resources (CERANR) competitive grant for $29,600.
11. Using hyperspectral remote sensing to develop decision support models for potato nitrogen management. Co-PI. Three-Year (2020-2022) USDA AFRI grant for $500,000.
12. Organic Alternatives to Conventional Celery Powder as a Meat Curing Agent. Co-Principal Investigator. Three-Year (2020-2023) USDA OREI grant for $2 million.
13. Creating a New Paradigm for Potato Breeding and Seed Production Based on True Potato Seed. Co-PI. Four-Year (2019-2023) USDA SCRI grant for $3 million.

14. Applications Of Reinforcement Learning Algorithms to Improve Crop Input Use. Project Director. Three-Year (2019-2022) USDA AFRI grant for $500,000.
15. Sweet CAP: Integrated Technologies to Improve Sweet Corn Production. Co-Principal Investigator. Four-Year (2018-2023) USDA SCRI CAP grant for $7.3 million.
16. The Economics of Seed-Based Insect Management for Corn and Soybeans, Three-Year (2017-2019) UW CALS Hatch grant for $93,000.
17. Economic Impact of Irrigated Potato and Vegetable Production and Processing in Wisconsin. Project Director. One-Year (2016-2017) WPVGA grant for $12,000.
18. Increasing the Economic Value of Sustainability in Wisconsin Potato Production Using a Multi-Tiered Approach. PD. One-Year (2014-2015) WPVGA grant for $12,000.
19. Profitability of Alternative Management Strategies for Western Corn Rootworm. Project Director. Three-Year (2014-2017) Monsanto Corn Rootworm Knowledge Research Program grant for $350,000.
20. Understanding How Market Structure Affects Pest Resistance to Enhance Sustainable Corn and Soybean Production. Co-Principle Investigator. Three-Year (2014-2017) USDA AFRI Foundation grant for $478,000.

E. Research Reports (last ten years)

1. Mitchell, P.D., D. Knuteson, J. Beach, K. Genskow. 2021. Preliminary Assessment of the Potential Economic Impacts of Proposed Changes to NR 151 for Agricultural Operations (69 p) https://widnr.widen.net/s/lhcsbgkpsl/uw_nitratereport_091521.
2. Dong, F., and P.D. Mitchell. 2018. Welfare Analysis of the Prohibition of 2,4-D in the United States. Benefits and Economic Assessment of 2,4-D and the Phenoxy Herbicides in the US. 2,4-D Industry Task Force II. Online: https://24d.info/wp-content/uploads/2020/08/2_Welfare_Analysis_of_Prohibition_of_24-D_03-10-2018.pdf.
3. Mitchell, P.D., and S.P. Conley. 2017. Benefits of Seed Applied Insecticides to Canadian Farmers: A Summary Report Prepared for the Canadian Seed Trade Association. AgInfomatics Research Report, (23 p). Online: http://aginfomatics.com/index.html.
4. Nowak, P., P.D. Mitchell, T.M. Hurley. 2017. The value of pyrethroids in U.S. agricultural and urban settings: Executive summary. AgInfomatics Research Report, Madison, WI (36 p). Online: http://aginfomatics.com/pyrethroids-project.html.
5. Mitchell, P.D. 2017. Methods and assumptions for estimating the impact of pyrethroid insecticides on pest management practices and costs for U.S. crop farmers. AgInfomatics Research Report, (119 p). Online: http://aginfomatics.com/pyrethroids-project.html.
6. Mitchell, P.D. 2017. Summary of the use of pyrethroid insecticides by U.S. crop farmers and the impacts of non-pyrethroid scenario on insecticide use and farmer costs. AgInfomatics Research Report, (26 p). Online: http://aginfomatics.com/pyrethroids-project.html.
7. Mitchell, P.D. 2017. Estimated yield benefits and efficacy of pyrethroid insecticides for major U.S. crops based on a meta-analysis of small plot data. AgInfomatics Research Report, Madison, WI (88 p). Online: http://aginfomatics.com/pyrethroids-project.html.
8. Mitchell, P.D. 2017. Economic assessment of the benefits of pyrethroid insecticides in the US. AgInfomatics Research Rpt (34 p): http://aginfomatics.com/pyrethroids-project.html.
9. Mitchell, P.D. 2015. The Value of Corn and Soybean Neonicotinoid Seed Treatments for Canada. AgInfomatics Research Report, (45 p): http://aginfomatics.com/index.html.

10. Mitchell, P.D. 2015. An Economic Assessment of the Benefits of Nitroguanidine Neonicotinoid Insecticides in the United States and Canada. AgInfomatics Research Report, Madison, WI (35 p). Online: http://aginfomatics.com/index.html.
11. Mitchell, P.D. 2014. A Meta-Analysis Approach to Estimating the Yield Effects of Neonicotinoids. AgInfomatics Research Report, Madison, WI (58 p). Online: http://aginfomatics.com/index.html.
12. Hurley, T.M., and P.D. Mitchell. 2014. Value of Insect Pest Management to U.S. and Canadian Corn, Soybean and Canola Farmers. AgInfomatics Research Report, Madison, WI (132 p). Online: http://aginfomatics.com/index.html.
13. Mitchell, P.D. 2014. Estimated Impact of Neonicotinoid Insecticides on Pest Management Practices and Costs for U.S. Corn, Soybean, Wheat, Cotton and Sorghum Farmers. AgInfomatics Research Report, Madison, WI (18 p). Online: http://aginfomatics.com/index.html.
14. Mitchell, P.D. 2014. Methods and Assumptions for Estimating the Impact of Neonicotinoid Insecticides on Pest Management Practices and Costs for U.S. Corn, Soybean, Wheat, Cotton and Sorghum Farmers. AgInfomatics Research Report, Madison, WI (96 p). Online: http://aginfomatics.com/index.html.

F. Research Presentations (last ten years)

1. Local premium quality foods and marketing contracts in the Wisconsin fresh potato market. American Agricultural Economics Association, New Orleans, LA, Jul 30, 2024.
2. Predicting Weekly County-level Crop Progress with Publicly Accessible Data, Western Agricultural Economics Association, San Francisco, Jun 24, 2024.
3. Impacts of Climate Change and Adaptation on Crop Quality: Evidence from U.S. Soybean. ASA/CSSA/SSSA, St. Louis, Oct 29, 2023.
4. A Generalized Finite-Horizon Stochastic Dynamic Model of In-Season Farm Management to Capture Temporal Risk, Amer Agricultural Econ Assoc, Washington, DC, Jul 24, 2023.
5. Impacts of Climate Change and Adaptation on Crop Quality: Evidence from U.S. Soybean, American Agricultural Economics Association, Washington, DC, Jul 24, 2023.
6. Machine learning for optimizing complex site-specific management. Australasian Agricultural and Resource Economics Society, Perth, Australia, Feb 13, 2020.
7. Influence of Sweet Corn Quality Traits on Willingness to Pay for Fresh Sweet Corn. International Sweet Corn Development Association Annual Mtg. Chicago Dec 9-10, 2019.
8. Adaptive Experimental Design Using Bayesian Optimization to Improve the Cost Efficiency of Small Plot Field Trials. 2019 ASA/CSSA/SSSA, San Antonio, TX, Nov 12, 2019.
9. Bayesian Optimization for Precision Agriculture. NCERA 180: Precision Agriculture Technologies for Food, Fiber, and Energy Production, Madison, WI, Aug 13, 2019.
10. Price Premium for Geographically Labelled Food: The Case of the Wisconsin Fresh Potatoes. American Agricultural Economics Association, Atlanta, July 22, 2019.
11. Policy Implications of Joint versus Separate Estimation of Crop Insurance Demand. American Agricultural Economics Association, Washington, DC, Aug 6, 2018.
12. Multi-armed bandit for experimental plot selection. Select Paper, American Agricultural Economics Association, Washington, DC, Aug 6, 2018.
13. Economic Logic of Risk-Based IPM. IPM for Early Season Pests Workshop, Iowa State University, Ames, IA, June 19-21, 2018.

14. Pyrethroid Use and Benefits to U.S. Agriculture. 2017 Workshop on Innovation and Regulation in Agriculture. North Carolina State University, Raleigh, NC, Oct 23-24, 2017.
15. Parametrizing Bioeconomic Models of Soybean Pest/Pathogen Management with Small Plot Data. ASA/CSSA/SSSA International Meetings, Tampa, FL, Oct 22-25, 2017.
16. Building Market Foundations for Sustainable Vegetable Production and Processing: A Consumer and Metrics-Based Approach. USDA Specialty Crop Committee Meeting, Traverse City, MI, Aug 28-30, 2017.
17. What is the Value of Pyrethroids? U.S. EPA: Biological and Economic Analysis Division, Washington, DC, May 23, 2017.
18. Human Behavior and Prediction versus Causation with Big Data. UW-CALS Big Data and Ecoinfomatics in Agricultural Research Symposium, Madison, WI, Apr 27, 2017.
19. Economic Benefits of the Pyrethroid Insecticides. U.S. EPA: Biological and Economic Analysis Division, Washington, DC, Oct 13, 2016.
20. Risk-Based IPM for Soybean Aphid Using Neonicotinoid Seed Treatments and Foliar-Applied Insecticides. International Congress of Entomology, Orlando, FL, Sep 29, 2016.
21. Economic Benefits of Neonicotinoid Insecticides in the U.S. and Canada: Implications for IPM. International Congress of Entomology, Orlando FL, Sep 28, 2016.
22. Economics Benefits of Triazine Herbicides for Corn. Briefing to USDA ARS, Office of Pest Management Policy, Washington, DC, Sep 22, 2016 (virtual).
23. The Value of Neonicotinoids to US Agriculture. Briefing to majority staff for the US Senate Environment and Public Works Committee and the Agriculture Committee, Washington, DC, July 14, 2016.
24. Economic Issues to Consider for Gene Drives. Roadmap to Gene Drives: A Deliberative Workshop to Develop Frameworks for Research and Governance, Genetic Engineering and Society Center, North Carolina State University, Feb 24-26, 2016.
25. Incorporating Product Performance Variability into Rootworm Management Recommendations, Monsanto Corn Academic Summit, St. Louis, MO, Feb 11, 2016.
26. Incorporating Product Performance Variability into Rootworm Management Recommendations, NCCC 46 Annual Meetings, Sioux Falls, SD, Jan. 27, 2016.
27. Update on SCRI Project Building Market Foundations for Sustainable Vegetable Production and Processing. New York Processing Sweet Corn and Processing Green Bean Advisory Panel Meetings, Geneva, NY, Dec 14, 2015.
28. Field-Level Economic Benefits of Neonicotinoid Seed Treatments in Corn and Soybean. Entomology Society of America Annual Meeting, Minneapolis, MN, Nov. 15-18, 2015.
29. Estimated Impact of Neonicotinoid Insecticides on Pest Management Practices and Costs for U.S. Corn, Soybean, Wheat, Cotton and Sorghum Farmers. Entomology Society of America Annual Meeting, Minneapolis, MN, Nov. 15-18, 2015.
30. Value of Insect Pest Management to U.S. and Canadian Corn, Soybean and Canola Farmers. American Agricultural Economics Assoc Annual Mtg, San Francisco, CA, July 26-28, 2015.
31. Discussion Regarding the Value of Corn and Soybean Neonicotinoid Seed Treatments for Canada. Health Canada's Pest Management Regulatory Agency, June 30, 2015 (virtual).
32. The Value of Neonicotinoids (with P. Nowak). USDA, Agricultural Research Service, Office of Pest Management Policy, Washington, DC, May 14, 2015.
33. Conceptual Framework and Empirical Results for a Practical Agricultural Sustainability Program. Food in the Bio-Based Economy, Wageningen, Netherlands, May 28, 2015.

34. Methodological Issues Associated with Reports on the Value of Neonicotinoids in North American Agriculture. U.S. EPA: Biological and Economic Analysis Division, Washington, DC, Apr 7, 2015.
35. Profitability of Alternative Management Strategies for Corn Rootworm. Monsanto Corn Academic Summit, St. Louis, MO, Feb 19, 2015.
36. Impacts of Atrazine Prohibition on Roundup Ready Adoption, Tillage, and Number of Herbicide Sites of Action used in Wisconsin Crop Production. Weed Science Society of America Annual Meeting, Lexington, KY, Feb 12, 2015.
37. Value of Neonicotinoids in North America. NC-205/NCC46 Joint Meetings, San Antonio, TX, Jan 27, 2015.
38. Value of Neonicotinoids in North America. U.S. EPA: Biological and Economic Analysis Division, Washington, DC, Jan 22, 2015.
39. Economic Benefits of Neonicotinoids. American Seed Trade Association Annual Meeting, Chicago, IL Dec 10, 2014.
40. National Initiative for Sustainable Agriculture. 17th Annual Farmer Cooperative Conference, Minneapolis, MN, Nov 6, 2014.
41. Biotechnology, Neonicotinoids and Organic Agriculture: An Economist's Perspective on Current Debates, UW Plant Sciences Symposium, Madison, WI, Oct 3, 2014.
42. Non-Neonicotinoid Counter-Factual: What would Crop Management Look Like without Neonicotinoids? 25th International Working Group on Ostrinia and Other Maize Pests, Chicago, Apr 14, 2014.
43. Economic Benefits of the Neonicotinoid Insecticides Clothianidin, Imidacloprid and Thiamethoxam in North American Agriculture: A Multi-Method Analysis. U.S. EPA: Biological and Economic Analysis Division, Washington, DC, Mar 8, 2014.
44. What Farmers Think about Climate Change, Wisconsin Sustainability Forum 2014: Climate Change in Wisconsin: Where Do We Go from Here? UW-Madison, Feb 27, 2014.
45. Measuring Agricultural Sustainability. NC-205/NCC46 Joint Mtg, Atlanta, Jan 28, 2014.

3. EXTENSION

Extension web page: https://aae.wisc.edu/pdmitchell/extension/

A. Extension Publications

1. Balancing Sustainability and Innovation in Wisconsin Agriculture. Economics Section. 2023. https://cropsandsoils.extension.wisc.edu/files/2023/11/UW-Balancing-Sustainability-and-Innovation.pdf.
2. Wisconsin's changing climate: Impacts and solutions for a warmer climate. 2021. Wisconsin Initiative on Climate Change Impacts. University of Wisconsin-Madison and Wisconsin DNR. Agricultural Working Group https://wicci.wisc.edu/2021-assessment-report/.
3. Grain Management Considerations in Low-Margin Years. F. Arriaga, S. Conley, B. Jensen, C. Laboski, J. Lauer, B. Luck, P. Mitchell, D. Smith. 2016. UW Extension Publication A4137 https://learningstore.uwex.edu/Assets/pdfs/A4137.pdf.
4. A Toolkit for Assessing IPM Outcomes and Impacts. An Online Living Document with Multiple Modules: http://westernipm.org/index.cfm/center-projects/project-websites/toolkit-for-assessing-ipm-outcomes-and-impacts/. IPM Adoption and Impacts Assessment Workgroup, Western IPM Center, Davis, CA, Oct 2013.

B. Smartphone Apps

1. Sporebuster, a White Mold Fungicide Value Calculator. 2018. Calculates the net return to foliar fungicide applications in soybeans based on user-entered data for their fields. See: http://ipcm.wisc.edu/apps/sporebuster/.

C. Extension Web Pages

1. Resources for Making ARC and PLC Decisions (updated annually 2019-2023) https://aae.wisc.edu/pdmitchell/extension/arc-plc-signup/.
2. Resources for Wisconsin Farmers Applying for CFAP Payments https://aae.wisc.edu/pdmitchell/extension/cfap-resources-for-wi/. Team: Matt Akins, Liz Binversie, Luiz Ferraretto, Bill Halfman, Kevin Jarek, Paul Mitchell.

D. Miscellaneous Outreach Publications (last ten years)

1. Mitchell, P., C. Nicholson, J. Hadachek, S. Deller, L. Polzin. 2024. Economic Impact of HPAI on Typical Wisconsin Dairy Herds. Division of Extension, Madison, WI
2. Cherney, J., Z. Zhou, J. Jinha, P. Mitchell, M. Digman, 2024. Alf Advisor: A program to assist with alfalfa harvest management decisions. Cornell University, Ithaca, NY. https://hdl.handle.net/1813/114221.
3. Mitchell, P. 2020. Income Losses due to COVID-19 for US and Wisconsin Commodity Crop Farmers (4 p). https://aae.wisc.edu/pdmitchell/2020/05/17/income-losses-due-to-covid-19-for-us-and-wisconsin-commodity-crop-farmers/.
4. Jones, M. and P. Mitchell. 2019. Gene Drives in Wisconsin Agriculture: What are they and who should support it? (5 p). https://renk.aae.wisc.edu/2019/10/02/gene-drives-in-wisconsin-agriculture-what-are-they-and-should-you-support-it/.
5. Mitchell, P. 2019. Market Facilitation Program: What it means for Wisconsin producers (4 p) https://renk.aae.wisc.edu/2019/08/05/market-facilitation-program-what-it-means-for-wisconsin-producers/.
6. Mitchell, P., and J. Beach. 2018. Future of Wisconsin Agriculture –Outlook 2018. State of Rural Wisconsin: Status and Trends of our Rural Communities, pp. 31-34. Wisconsin Rural Partners, https://www.wiruralpartners.org/state-of-rural-wisconsin.
7. Mitchell, P. 2018. 2017 Farm Income and 2018 Cost Outlook. Status of Wisconsin Agriculture. UW-Madison Agricultural and Applied Economics.
8. Mitchell, P. 2017. 2016 Farm Income and 2017 Cost Outlook. Status of Wisconsin Agriculture. UW-Madison Agricultural and Applied Economics.
9. Hendrickson, J., E. Bietila, E. Silva, P.D. Mitchell, J. Munsch, and R. McNair. 2016. Veggie Compass helps growers make data-driven decisions. CIAS Resrch Brief (4 p), Madison, WI.

E. Extension Fact Sheets (last ten years)

1. Mitchell, Hadachek. Prevented Plant Example Calculations for Wisconsin in 2024. Jun 24, 2024. https://aae.wisc.edu/pdmitchell/2024/06/24/prevented-plant-example-calculations-for-wisconsin-in-2024/
2. Mitchell, Hadachek, Jarek. Forage Options for Prevented Plant Acres in Wisconsin in 2024. Jun 21, 2024. https://aae.wisc.edu/pdmitchell/2024/06/21/forage-options-for-prevented-plant-acres-in-wisconsin-in-2024/
3. Updates on ARC and PLC Recommendations for 2024. Mar 1, 2024. https://aae.wisc.edu/pdmitchell/2024/03/01/updates-on-arc-and-plc-recommendations-for-2024/

4. Ways to Reduce Borrowing for Your Farm. Dec 1, 2023. https://aae.wisc.edu/pdmitchell/2023/12/01/ways-to-reduce-borrowing-for-your-farm/
5. Marketing Assistance Loans – A Tool for Managing Interest Costs, Oct 10, 2023. https://aae.wisc.edu/pdmitchell/2023/10/10/marketing-assistance-loans-a-tool-for-managing-interest-costs/
6. Nitrogen Optimization Pilot Program (NOPP) and Crop Insurance Coverage, Jun 20, 2023. https://aae.wisc.edu/pdmitchell/2023/06/20/nitrogen-optimization-pilot-program-nopp-and-crop-insurance-coverage/
7. Estimating Custom Rate for 2023 Wisconsin Farm Operations, Apr 2023. https://aae.wisc.edu/pdmitchell/2023/04/14/estimating-custom-rate-for-2023-wisconsin-farm-operations/
8. Crop Insurance Changes for 2023, Feb 2023. https://farms.extension.wisc.edu/articles/crop-insurance-changes-for-2023/
9. ARC and PLC Recommendations in Brief for 2023, Dec 2022. https://aae.wisc.edu/pdmitchell/2022/12/01/arc-and-plc-recommendations-in-brief-for-2023/
10. 2023 ARC and PLC Sign-up Recommendations for Wisconsin Farmers, Dec 2022. https://aae.wisc.edu/pdmitchell/wp-content/uploads/sites/15/2022/12/2023-Recomendations-Post-1.pdf
11. ARC and PLC Recommendations for 2022, Nov 2021. https://aae.wisc.edu/pdmitchell/2021/11/24/arc-and-plc-recommendations-for-2022/
12. Guidance on 2022 Price Forecasts for FarmDOC ARC/PLC Payment Simulator, Nov 2021. https://aae.wisc.edu/pdmitchell/2021/11/24/guidance-on-2022-price-forecasts/
13. Dairy Helps Insulate Wisconsin Farmers from Fertilizer Price Spikes, Oct 2021. https://aae.wisc.edu/pdmitchell/2021/10/20/dairy-helps-insulate-wisconsin-farmers-from-fertilizer-price-spikes/
14. Farm Costs are Up, Oct 2021. https://aae.wisc.edu/pdmitchell/wp-content/uploads/sites/15/2021/10/Farm-Costs.pdf.
15. Talk to FSA about the Quality Loss Adjustment (QLA) Program, Feb 2021. https://aae.wisc.edu/pdmitchell/2021/02/15/talk-to-fsa-about-the-quality-loss-adjustment-qla-program/
16. Updated Guidance on Price Forecast Models for the FarmDOC ARC/PLC Calculator, Feb 2021. https://aae.wisc.edu/pdmitchell/2021/02/11/updated-guidance-on-price-forecast-models-for-the-farmdoc-arc-plc-calculator/
17. Crop Insurance and Marketing for Risk Management in 2021, not ARC/PLC, Feb 2021. https://aae.wisc.edu/pdmitchell/2021/02/11/crop-insurance-and-marketing-for-risk-management-in-2021-not-arc-plc/
18. 2021 ARC and PLC Signup: Recommendations for Wisconsin Farmers, Dec 2020. https://aae.wisc.edu/pdmitchell/2020/12/23/2021-arc-and-plc-signup-recommendations-for-wisconsin-farmers/
19. Guidance on Price Forecast Models for the FarmDOC ARC/PLC Calculator, Dec 2020. https://aae.wisc.edu/pdmitchell/2020/12/23/guidance-on-price-forecast-models-for-the-farmdoc-arc-plc-calculator/
20. Preliminary ARC/PLC Recommendations for 2021, Oct 2020. https://aae.wisc.edu/pdmitchell/2020/10/14/preliminary-arc-plc-recommendations-for-2021/
21. How to Complete Crop Production Reports for CFAP Payment Applications, June 2020. https://aae.wisc.edu/pdmitchell/2020/06/03/tools-to-help-complete-crop-production-reports-for-cfap-payment-applications/

22. CFAP Direct Payments to Commodity Crop Farmers: How the Program Works, May 2020. https://aae.wisc.edu/pdmitchell/2020/05/21/cfap-direct-payments-to-commodity-crop-farmers/
23. Navigating Farm Support Programs During COVID-19, Apr 2020. https://aae.wisc.edu/pdmitchell/2020/04/27/navigating-farm-support-programs-during-covid-19/
24. Pandemic Unemployment Assistance in Wisconsin – What Does It Mean for Farmers? Apr 2020. https://farms.extension.wisc.edu/pandemic-unemployment-assistance-in-wisconsin-what-does-it-mean-for-farmers/.
25. Paycheck Protection Program, Apr 2020. https://farms.extension.wisc.edu/ppp-and-farmers/.
26. Economic Injury Disaster Loans (EIDL) Now Open to Agricultural Enterprises, Apr 2020. https://farms.extension.wisc.edu/economic-injury-disaster-loans-eidl-now-open-to-agricultural-enterprises/.
27. Families First Coronavirus Recovery Act: Legal Obligations for Farms with Employees during COVD, Apr 2020. https://aae.wisc.edu/pdmitchell/2020/04/08/families-first-coronavirus-recovery-act-legal-obligations-for-farms-with-employees-during-covid-19/.
28. Creating a Dairy Farm Operating Plan, Apr 2020 https://farms.extension.wisc.edu/dairy-farm-operating-plan/.
29. COVID-19: Social Distancing for Farmers, Apr 2020 https://renk.aae.wisc.edu/2020/04/03/covid-19-social-distancing-for-farmers/.
30. COVID-19 and Spring Planting: What's a Farmer to Do?, Mar 2020 https://renk.aae.wisc.edu/2020/03/30/covid-19-and-spring-planting-whats-a-farmer-to-do/.
31. Sign up now for ARC or PLC – Recommendations for Wisconsin Farmers (Jan 2020) https://renk.aae.wisc.edu/2020/01/09/sign-up-now-for-arc-or-plc-recommendations-for-wisconsin-farmers/.
32. Can I Use Corn or Soybeans as a Cover Crop on Prevented Plant Acres? UWEX Info Bulletin (2 p), June 2019. https://aae.wisc.edu/pdmitchell/wp-content/uploads/sites/15/2019/09/Corn-or-Soy-as-Cover-Crop-Update.pdf
33. Late and Prevented Planting Coverage and Replant Provisions for Wisconsin Farmers. UWEX Info Bulletin (2 p), May 2019. https://aae.wisc.edu/pdmitchell/wp-content/uploads/sites/15/2019/09/Late-and-Prevented-Planting-2019-Update.pdf
34. Moldy Corn and Crop Insurance. UWEX Info Bulletin (2 p), Sep 2016.
35. Cover Crops & Crop Insurance. UWEX Info Bulletin (2 p), May 2016.
36. Farm Bill Choices: What Should Wisconsin Crop Farmers Do? UWEX Info Bull Jan 2015.

F. Publications in Trade Magazines (last ten years)

1. Mitchell, P., Y. Wang, M. Ruark. 2024. Maximum Return to Nitrogen Approach for Potatoes. *The Badger Common'Tater* 76(8):35-39.
2. Colquhoun, J., S. Hall, and P.D. Mitchell. 2024. Funding Supports Water Quality Research and Outreach. *The Badger Common'Tater* 76(6):38-42.
3. Mitchell, P.D. 2023. At Ground Zero: Investing in Agricultural Conservation. *Wisconsin Counties* 87(10): 10-13. https://www.wicounties.org/exploring-the-changing-landscape-of-wisconsin-agriculture/
4. Mitchell, P.D., and N. Utesov. 2023. Investment in Potato Quality: Market Segregation in Wisconsin. *The Badger Common'Tater* 75(8):59-63.
5. Colquhoun, J., and P.D. Mitchell. 2023. Can we use big data to add precision and make management decisions in cranberry? Cranberry Crop Management Journal 36(1):1-3 (4/26).

6. Mitchell, P.D., J. Endelman, P. Bethke, and G. Shi. 2022. Initial Thoughts on the Impact of True Potato Seed on the Seed Potato Industry. *The Badger Common'Tater* 74(8):61-66.
7. Mitchell, P.D. 2021. Do I choose ARC or PLC for next year's crop? Hoard's Dairyman Intel https://hoards.com/article-31247-do-i-choose-arc-or-plc-for-next-years-crop.html. 12/6/2021.
8. Mitchell, P.D. 2021. Consumers Changes with the Coronavirus Pandemic. *The Badger Common'Tater* 73(8):48-52.
9. Mitchell, P.D. 2021. Latest Trends in Herd Numbers and Farm Bankruptcy Offer Some Hope. Hoard's Dairyman Intel (https://hoards.com/article-30221-latest-wisconsin-farm-Unpacking consefatrionnumbers-offer-hope.html). May 20, 2021.
10. Mitchell, P.D. 2020. State of the US Farm Sector and COVID-19. *The Badger Common'Tater* 72(8):49-53.
11. Mitchell, P.D., I. Chen, X. Du. 2019. Wisconsin's Comparative Advantages in Potato Marketing. *The Badger Common'Tater* 71(8):52-55.
12. Colquhoun, J., and P.D. Mitchell 2018. What is a Viable Future for Wisconsin Specialty Crops? *The Badger Common'Tater* 70(12):55-59.
13. Mitchell, P.D. 2018. Ensure Wisconsin's Potato Workforce into the Future. *The Badger Common'Tater* 70(8):51-56.
14. Colquhoun, J., P.D. Mitchell, and Y. Saikai. 2017. What do you really get out of all that farm data? *The Badger Common'Tater* 69(12):28-31.
15. Mitchell, P.D., S. Deller and R. Smail. 2017. Economic Impact of Specialty Crops and Irrigated Agriculture in Wisconsin. *The Badger Common'Tater* 69(8):32-39.
16. Mitchell, P.D., F. Dong, and P. Bethke. 2016. Grower Price Effects of Innate™ Potato. *The Badger Common'Tater* 68(8):48-53.
17. Mitchell, P.D., N. Wille, F. Dong, and D. Knuteson. 2015. Agricultural sustainability for Wisconsin's Potato & Vegetable Growers. *The Badger Common'Tater* 67(8):23-29.
18. Mitchell, P. D. 2014. Farm Bill Commodity Programs: Farmers Face Important Long-Term Decisions. *The Badger Common'Tater* 66(8):12-16.

G. Extension Presentations (last five years)

1. Economics of Nitrogen Management. Regional Conservation Finance Ag Educator Training, Arlington, WI, Sep 16, 2024.
2. Farm Finance and Ag Policy Update. Badger Crop Connect, Virtual, June 26, 2024
3. Sweet CAP Research Update, Midwest Food Products Association's Board of Directors and Raw Products Committee, Wisconsin Dells, WI, Jun 5, 2024
4. 2024 Wisconsin Ag Economics Outlook. WI DATCP Farm Economic Update for Farm Center volunteers, Virtual, May 31, 2024
5. Production Ag 101: What it is and consumer influence. Ag After Hours, Food + Farm Exploration Center, Plover, WI May 28, 2024
6. Economic Issues for Organic Produce, Organic Produce Outlook Breakout, Organic Trade Association, Washington, DC May 14, 2024
7. Economics of Grazing and Conservation, Shoepp Family Farm Tour Lodi, WI May 10, 2024
8. Mega-Trends in Agriculture, Wisconsin Agri-Business Association Midwestern Agribusiness Leaders Meeting, Madison, May 7, 2024
9. Grain Markets and Margins for 2024, Ag Professionals Update, Center, WI May 3, 2024

10. LRP Participation and Performance Data in Wisconsin and Surrounding States. Webinar, Mar 5, 2024
11. Processing vegetable consumption trends and opportunities. Lakeside and Harris Moran in service, Sun Prairie, WI, HM Seeds, Feb 28, 2024
12. Decision-Making Strategies with Forage Insurance for Wisconsin Farms, Focus on Forage: UW Extension Crops and Soils Webinar, Feb 22, 2024.
13. Tradeoff between Forage Quality and the Risk of Rain. Forage Symposium, Wisconsin Dells, WI, Feb 20, 2024
14. Maximum Return to Nitrogen for Potatoes. WPVGA-UWEX Annual Grower Meeting, Stevens Point, WI, Feb 6, 2024
15. Asset Depreciation, Agricultural Fundamentals 101, WPVGA-UWEX Annual Grower Meeting, Stevens Point, WI, Feb 6, 2024
16. Farm Income Situation and Outlook, 2024 Wisconsin Agricultural Outlook Forum, Madison, WI, Jan 23, 2024.
17. Processing Vegetable Consumption Trends and Opportunities. Processing Crops Conference, Wisconsin Dells, WI, Nov 29, 2023.
18. Panelist: Building Resilience across the Farm, Responding to Climate Challenges. Managing the Extremes, Badger Crops and Soils Update Meeting, Fon du Lac, WI, Nov 29, 2023.
19. Mid-Season Outlook for Commodities and Farm Income, Cornelius Seed Summer Summit, La Crosses. WI, June 27, 2023.
20. Crop Insurance and Drought, Badger Crop Connect Special "Flash Drought" Webinar, UW Extension Crop and Soils Team, June 9, 2023.
21. Late and Prevented Planting Options and Considerations, Badger Crop Connect Webinar, UW Extension Crop and Soils Team, May 24, 2023.
22. 2023 Grain Markets and Risk Management Options. Extension Farm Management Update for Ag Professionals, Appleton, WI, Apr 28, 2023
23. Farm Income and Financial Situation: Economic Recommendations for Managing Costs in 2023, Manitowoc County Forage Council Annual Meeting, St. Nazianz, WI, Mar 8, 2023
24. Overview of Title I Programs in the Farm Bill. Wisconsin Farm Bureau Farm Bill Working Group meeting, virtual, Feb 21, 2023
25. Profit Margins Along the Fresh Potato Supply Chain (with Nurlan Utesov), WPVGA-UWEX Annual Grower Meeting, Stevens Point, WI Feb 7, 2023
26. Fresh Market Vegetable Pricing and Future Trends, Wisconsin Fresh Fruit and Vegetable Conference, Wisconsin Dells, Jan 30, 2023
27. Farm Income Situation and Outlook, 2023 Wisconsin Agricultural Outlook Forum, Madison, Jan 24, 2023
28. Farm Policy: What's coming from DC? Wisconsin Agribusiness Association, Agribusiness Classic, Madison, Jan 12, 2023
29. Farming in an Age of Inflation, 2022 Badger Crops and Soils Update Meeting
    a. Virtual, Dec 12, 2022 b. Green Bay, Dec 13, 2022 c. La Crosse, Dec 15, 2022
30. New Farm Bill and Crop Insurance Updates, Processing Crops Conference, Wisconsin Dells, WI, Nov 29, 2022.
31. Situation and Outlook for the Wisconsin Farm Economy. Wisconsin Department of Financial Institutions, Division of Banking Bank Examiner Conference, Madison, WI Nov 15, 2022
32. What about Economics? Unpacking Conservation Agriculture, Pheasants Forever and UW Extension, Dodgeville, WI, Nov 14, 2022

33. Grain Crops in 2022 and the Future of Nutrient Management. Lafayette Ag Stewardship Alliance Annual Meeting, Darlington, WI Feb 25, 2022.
34. Economics of Nitrogen in the Central Sands, WPVGA-UWEX Annual Grower Meeting, Steven Point, WI Feb 8, 2022.
35. New Risk Management Options in 2022, Wisconsin Corn Soy Expo, Wisconsin Dells, WI, Feb 4, 2022
36. Wisconsin Farm Economy Situation and Outlook, USDA NASS Wisconsin ARMS III Interviewer Training, (virtual), Feb 2, 2022.
37. 2022 Farm Income Situation and Outlook, Wisconsin 2022 Agricultural Outlook Forum, Madison, WI, Jan 25, 2022.
38. State of the Wisconsin Agricultural Economy, 2022 Wisconsin Cranberry School (virtual), Jan 19, 2022.
39. Farm Economy and Policy Updates, WABA Agribusiness Classic, Madison, WI Jan 13, 2022
40. Farm Gate Economic Outlook 2022, UW Extension Farm Management Fridays (virtual), Jan 7, 2022
41. Economic Impact Assessment of Proposed Nitrate Groundwater Standards in Wisconsin, MWFPA Processing Crops Conference, Wisconsin Dells, WI, Nov 30, 2021.
42. Farm Program Policies and Payments for 2022, Tri-State Agricultural Lenders Seminar, Dubuque, IA, Nov 9, 2021.
43. Corn and Soybean Situation and Outlook, American Society of Farm Managers and Rural Appraisers Wisconsin Meeting, Wisconsin Dells, WI, Oct 12, 2021.
44. Preliminary Assessment of the Potential Economic Impacts of Proposed Changes to NR 151 for Agricultural Operations, Wisconsin DNR Nitrate Webinar (virtual), Sep 16, 2021.
45. Update on the Farm Economy, Wisconsin AgriBusiness Association Lunch Webinar (virtual). July 21, 2021.
46. Why the System Favors Corn and Soybeans. Grasslands 2.0 All Team Summer Meeting, Arlington, WI, June 24, 2021.
47. Agriculture and the Environment in Wisconsin Economy. Osher Lifelong Learning Institute, UW-Milwaukee, Milwaukee, WI (virtual), April 5, 2021.
48. Implications of Consumer Sweet Corn Trends for Wisconsin, Central Wisconsin Processing Crops (Virtual) Meeting, Mar 17, 2021.
49. Risk Management Opportunities in 2021. Agronomy Virtual VIP, Insight FS, Feb 24, 2021.
50. Update on Federal Programs and the Farm Economy, Beans and Bull Virtual Sessions, Wisconsin Soybean Association and UW Extension, (virtual), Jan 28, 2021.
51. Farm Income Situation and Outlook, Wisconsin Agricultural Outlook Forum, and Panel Emcee for Grain, Dairy and Livestock Panels, (virtual), Jan 26, 2021.
52. Farm-Gate Economic Outlook Forum, Farm Management Fridays Webinar, Jan 22, 2021.
53. ARC and PLC Recommendations for 2021 for Wisconsin Farmers
    a. ARC or PLC Decision Making Webinar, UW Division of Extension, Jan 19, 2021.
    b. Wisconsin Agribusiness Classic (Online), WABA and DOE, Jan 14, 2021
54. 2020 Processing Crops End of Year Review: Industry Impacts and Opportunities Panel. Midwest Food Products Association's Processing Crops Conference, Dec 2, 2020.
55. 2020 End of Year Review: Crops and Farm Finances, UW Extension Farm Management Update for Agricultural Professionals. Nov 12, 2020.
56. Wisconsin's Changing Rural Landscape, Advancing Wisconsin's Rural Bioeconomy, Wisconsin Energy Institute, Oct 21, 2020.

57. Potential for Organic Cured Meat Industry and Celery Production in Wisconsin, Alternative Agricultural Opportunities, WI Economic Development Assoc Fall Meeting, Oct 2, 2020.
58. Food Supply in the Age of COVID-19, WARF Entrepeneurons Webinar, June 30, 2020.
59. How Farms are Faring During COVID-19. Virtual presentation at the Extension Farm Management Program Meeting, Sep 11, 2020.
60. Business and Marketing Challenges of Hemp, Panelist for More Complex Challenges of Hemp, Wisconsin Cannabis Expo, Milwaukee, Feb 8, 2020.
61. Wisconsin Competitive Advantages in Potato Marketing, Wisconsin Potato and Vegetable Growers Association Grower Education Meeting, Stevens Point, Feb 5, 2020.
62. Business and Marketing of Hemp in Wisconsin. Extension Hemp Boot Camp, Stevens Point, Feb 5, 2020.
63. Wisconsin Perspective on Hemp, Wisconsin Ag Outlook Forum, Madison, Jan 28, 2020.
64. Farm Income Situation and Outlook, Wisconsin Ag Outlook Forum, Madison, Jan 28, 2020.
65. ARC or PLC? Recommendations for Wisconsin Farmers, Wisconsin Agribusiness Classic, Madison, Jan 16, 2020
66. Operating Your Business in Economically Challenging Times, Wisconsin Agribusiness Classic, Madison, Jan 16, 2020.
67. Resources for Farmers Making ARC and PLC Decisions, County Ag Agent Farm Management Clinic In-service Trainings
    a. South Eastern region, Dec 13 (Zoom) b. North Central region, Dec 16, Marshfield
    c. North Western region, Dec 17, Osseo d. South Central region, Dec 20, Madison
68. Agricultural Economy Outlook: Implications for Processing Vegetables, MWFPA Processing Crops Conference, Wisconsin Dells, WI, Dec 3, 2019
69. Wisconsin Agricultural Economic Update, USDA-FSA Farm Lending In-service, Rothschild, WI, Nov 14, 2019.
70. Panelist on Struggles in Wisconsin Farm Country, Navigating the New Economy, Wisconsin Academy of Global Education and Training, Platteville, WI, Oct 17, 2019.
71. Panelist on Economics and Business of CBD in Wisconsin, CBD Hemp Field Day. Cottage Grove, WI, Sep 13, 2019
72. The Business and Marketing of Hemp. BuyerFest 2019, Carlin Horticultural Supplies, West Bend, WI, Sep 11, 2019