

CASEY W. HOY

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EDUCATION and PROFESSIONAL EXPERIENCE

Ph. D. Cornell University, January 1988

Major: Entomology Dissertation: Simulating Intraplant Spatial Dynamics of Lepidoptera on Cabbage to Predict Feeding Damage.

B. S. Cornell University, May 1981, with Distinction and Honors

Major: Entomology Honors Thesis: Variable Intensity Sampling, a New Sampling Procedure for Cabbage Pest Management.

Faculty Director, The Discovery Themes Initiative for Food and AgriCultural Transformation, InFACT, The Ohio State University, September 2015-2021
 Kellogg Endowed Chair in Agricultural Ecosystems Management, The Ohio State University, July 2006 - 2021

Associate Chair, Dept. of Entomology, The Ohio State University, June 2001 - July 2006

Professor of Entomology, The Ohio State University, July 1999 - Present

Associate Professor of Entomology, The Ohio State University, July 1993 - June 1999

Assistant Professor of Entomology, The Ohio State University, September 1987 - June 1993

Graduate Research Assistant, Cornell University, August 1983 - August 1987

Research Assistant, Cornell University, October 1981 - June 1982, October 1982 - June 1983

RESEARCH EXPERIENCE

Past research has included systems analysis and its application to problems in pest management and applied ecology, and management of insect pests of vegetables. Research projects involved sampling, treatment decisions, and multiple control tactics for the management of vegetable insect pests, spatial dynamics of insect pests, insecticide resistance, disease epidemiology, and landscape scale pest control. Current work is developing the theoretical and applied knowledge base essential to advancements in agroecosystem health, sustainable development, and food security. Interdisciplinary research leadership has included engaging, collaborating, and partnering with internal and external stakeholders to: advance management initiatives, programs, and curricula; provide leadership in agroecosystem sciences research, extension and teaching programs; communicate results and progress; assist in replicating and extending successful approaches in agroecosystems management and food security; promote a compelling and rewarding learning environment about agroecosystems theory and practical application; promote a systems approach to sustainable and resilient food security with participation across the University and beyond.

TEACHING EXPERIENCE

Past offerings have included graduate-level courses entitled "Simulation Modeling in Applied Insect Ecology", "Quantitative Methods in Applied Biology", "Introduction to Graduate Study in Entomology", "Systems Analysis: from molecules to ecosystems", "Interdisciplinary Research and Team Leadership", and special topics courses as requested.

As Kellogg Chair my focus was on support for sustainable agriculture curriculum including development of the specialization in Agroecosystem Science in the Environmental Science Graduate Program, support for the AS degree in Sustainable Agriculture at ATI, development of a BS in Sustainable Agriculture as a CFAES-wide offering, and coordination and support provided to the statewide and multi-institutional Ohio Sustainable Agriculture Education Network.

M.S. students as major advisor: Ty Vaughn (11/90), Mark Apelt (5/95), Beth Waller (5/95), Claire Paisley-Jones (8/11), Liz Kolbe (5/13), Ben Kerrick (5/13), Fred Reppun (5/16), Hannah Whitehead (12/16); Logan Rance (5/20); Jane Karetny (12/20)

Ph. D. students as major advisor: David East (12/92), Angel Torres (6/2001), Janet Lawrence (8/2004), Diego Rincon-Rueda (5/15), Jed Stinner (5/16), Jennifer Harrison (8/17)

Proficiency Conference Committee's: Ty Vaughn, David East, Deborah Murrall, Mark Apelt, Beth Waller, Doug Richmond, Angel Torres, Janet Lawrence, Alfred Alumai

Candidacy Exam Committee's: David East, Leann Beanland, Ibrahim Mohammed Al-Helal, Bill Turechek, Doug Richmond, Angel Torres, Rafael Bujanos-Muñiz, N. Luo, Janet Lawrence, Gonzalo Ferreira, Harit Bal, Pat Bell, Doug Sponsler

Final Exam Committee's: Ty Vaughn, Amadou Ba, Julie Todd, Marlene Ellis, David East, João Spotti-Lopes, Deborah Murrall, Carl Danielson, Mark Apelt, Beth Waller, Leann Beanland, Doug Richmond, Rafael Bujanos-Muñiz, Angel Torres, Mark Frey, Gina Penny, Janet Lawrence, Alfred Alumai, Mizuho Nita, Harit Bal, Pat Bell, Doug Sponsler

Postdoctoral and visiting scientists: Hengchen Lin (2/92 - 6/92), response of diamondback moth larvae to permethrin odors; Graham Head (9/91 - 4/97), genetics of behavioral and physiological adaptation to toxins in diamondback moth; Xilong Zhou (6/96 - 7/98) mathematical modeling of aster yellows epidemiology; Xianjin Liu (1/99 - 9/99) electrophysiological analysis of Colorado potato beetle behavioral response to Bt ingestion; Liyang Zhou (11/99 - 2/01) mathematical modeling of aster yellows epidemiology; Erol Yildirim (1/02-10/02) seed treatments and entomopathogenic nematode biological control; Krishna Prasad Vadrevu (8/01 - present) GIS and remote sensing for landscape indicators of agroecosystem health; Mustapha F. A. Jallow (8/03 - 6/06) vegetable pest management and insect behavioral responses to toxins. Jung Joon Park (7/05-6/06) landscape scale analysis of plant disease epidemics and spatial analysis of biological control in agroecosystems; Meike Wollni (10/07-8/08) economic analysis of agricultural ecosystems, market price and farm practice relationships; Ross MacDonald (5/09-12) curriculum for social networking and collaboration; Ying Zhang (9/10-10/11) comparison of agricultural cooperatives; Harit Bal (1/16-12/16) Entomopathogenic nematode ecology; Jan Grenz (6/17-8/17) sustainability evaluation of Ohio dairy farms and the RISE model. Jennifer Harrison (9/17-3/20) Statewide network of sustainable agriculture education programs.

EXTENSION EXPERIENCE

Professor, The Ohio State University

Activities to ensure that research results are pertinent and useful to farmers have included: substantial participation in development and implementation of IPM pilot programs in cabbage, greens, lettuce, sweet corn, potato, and tomato crops; presentation of research information at grower meetings, University field days, and a regular schedule of breakfast meetings during the growing season. As Kellogg Chair in Agricultural Ecosystems management outreach support has been developed for on farm research through the Warner Grants for Sustainable Agriculture program, the Annual Stinner Summit to initiate new projects that improve agroecosystem health, economic development in agriculture support through localfoodsystems.org, and policy support through the Ohio Food Policy Advisory Council and a statewide coalition of local food policy councils. Served on and provided advice to the Ohio Smart Agriculture: Solutions from the Land design team and

steering committee. Support has also been provided to multiple extension teams including: Veg Crops, Sustainable Agriculture, Sustainability, eXtension CoP on Community and Local Food systems.

Pest Management Consultant. June 1981-October 1985

Operated a field monitoring and consulting business on over 2000 acres of fresh market, storage, and processing cabbage in six New York counties. Developed the required sampling procedures, computer software, business plan, and clientele.

HONORS AND PROFESSIONAL ASSOCIATIONS

Phi Eta Sigma (national freshman academic honors fraternity)

J. H. Comstock Fellowship, Fall, 1983

Entomological Society of America

Professional Agricultural Consultants of New York State

Organizing committee, Chairman, January, 1983 - March, 1984

Vice President, March, 1984 - March, 1985

Sigma Xi

Society for Invertebrate Pathology

Potato Association of America

OARDC Multidisciplinary Team Research Award, 1997

OARDC Distinguished Research Award, 1998

ESA Award for Excellence in Integrated Pest Management, 1999, North Central Branch of the Entomological Society of America

7th Annual Wayne Carmichael Lecture, Wright State University, 2016

Agricultural Sustainability Institute Fellow, Agricultural Sustainability Institute, UC Davis, 2019

Fellow of the Entomological Society of America, 2021

RESEARCH PUBLICATIONS

1. Hoy, C. W., C. Jennison, A. M. Shelton, and J. T. Andaloro. 1983. Variable intensity sampling: a new technique for decision making in pest management. *J. Econ. Entomol.* 76: 139-143.
2. Shelton, A. M., J. T. Andaloro, and C. W. Hoy. 1983. Survey of ground-dwelling predaceous and parasitic arthropods in cabbage fields in upstate New York. *Environ. Entomol.* 12: 1026-1030.
3. Andaloro, J. T., C. W. Hoy, K. B. Rose, and A. M. Shelton. 1983. Evaluation of insecticide usage in the New York processing cabbage pest management program. *J. Econ. Entomol.* 76: 1121-1124.
4. Andaloro, J. T., K. B. Rose, A. M. Shelton, C. W. Hoy, and R. F. Becker. 1983. Cabbage growth stages. *N. Y. Food Life Sci. Bull.* 101. 4pp.
5. Andaloro, J. T., C. W. Hoy, K. B. Rose, J. P. Tette, and A. M. Shelton. 1983. A review of cabbage pest management in New York: from the pilot project to the private sector, 1978-1982. *N. Y. Food Life Sci. Bull.* 105. 12pp.
6. Hoy, C. W., A. M. Shelton, and J. T. Andaloro. 1986. Action thresholds for processing cabbage, a short term solution to a long term problem. *Ag. Ecosys. Environ.* 16: 45-54.
7. Hoy, C. W., and A. M. Shelton. 1987. Feeding response of larval *Trichoplusia ni* (Hübner) (Lepidoptera: Noctuidae) and *Artogeia rapae* (L.) (Lepidoptera: Pieridae) to gradients of cabbage leaf age. *Environ. Entomol.* 16: 680-682.
8. Sawyer, A. J., Z. Feng, C. Hoy, R. James, S. Naranjo, S. Webb, and C. Welty. 1987. Instructional simulation: the sterile male technique with spatial and random effects. *Bull. Entomol. Soc. Am.* 33: 182-190.
9. Shelton, A. M., C. W. Hoy, R. C. North, M. H. Dickson, and J. Barnard. 1988. Analysis of

- resistance in cabbage varieties to damage by Lepidoptera and Thysanoptera. *J. Econ. Entomol.* 81: 634-640.
10. Hoy, C. W., C. E. McCulloch, C. A. Shoemaker, and A. M. Shelton. 1989. Transition probabilities for *Trichoplusia ni* (Hübner) larvae on cabbage plants, a function of microclimate. *Environ. Entomol.* 18: 187-194.
 11. F. R. Hall, A. J. Adams, and C. W. Hoy. 1989. Correlation of precisely defined spray deposit parameters with biological responses of resistant diamondback moth field populations. *Aspects Appl. Biol.* 21: 125-127.
 12. Shelton, A. M., C. W. Hoy, and P. B. Baker. 1990. Response of cabbage head weight to simulated lepidopteran defoliation. *Entomol. Exp. Appl.* 54: 181-187.
 13. Roush, R. T., C. W. Hoy, D. N. Ferro, and W.M. Tingey. 1990. Insecticide resistance in the Colorado potato beetle (Coleoptera: Chrysomelidae): influence of crop rotation and insecticide use. *J. Econ. Entomol.* 83: 315-319.
 14. Hoy, C. W., A. J. Adams, and F. R. Hall. 1990. Behavioral response of *Plutella xylostella* (Lepidoptera: Plutellidae) populations to permethrin deposits. *J. Econ. Entomol.* 83: 1216-1221.
 15. Adams, A. J., F. R. Hall, and C. W. Hoy. 1990. Evaluating resistance to permethrin in *Plutella xylostella* (Lepidoptera: Plutellidae) populations using uniformly sized droplets. *J. Econ. Entomol.* 83: 1211-1215.
 16. Hoy, C. W., C. E. McCulloch, A. J. Sawyer, A. M. Shelton, and C. A. Shoemaker. 1990. Impact of intraplant insect movement on economic thresholds. *Environ. Entomol.* 19: 1578-1596.
 17. Hoy, C. W. 1991. Variable-intensity sampling for proportion of plants infested with pests. *J. Econ. Entomol.* 84: 148-157.
 18. Hoy, C. W. and D. W. Kretchman. 1991. Thrips (Thysanoptera: Thripidae) injury to cabbage cultivars in Ohio. *J. Econ. Entomol.* 84: 971-977.
 19. Hoy, C. W., A. J. Adams, F. R. Hall, and S. J. Nettleton. 1991. Relationship between behavioral and physiological responses of *Plutella xylostella* (Lepidoptera: Plutellidae) larvae to permethrin deposits within two Ohio populations. *J. Econ. Entomol.* 84: 1135-1139.
 20. Hoy, C. W. and C. S. Glensiter. 1991. Releasing *Amblyseius* spp. [Acarina: Phytoseidae] to control *Thrips tabaci* [Thysanoptera: Thripidae] on cabbage. *Entomophaga* 36: 561-573.
 21. Adams, A. J., C. W. Hoy, F. R. Hall, and S. J. Nettleton. 1992. Larval feeding and movement in two *Plutella xylostella* (Lepidoptera: Plutellidae) populations exposed to discrete deposits of permethrin. *Pestic. Sci.* 35: 243-247.
 22. Hoy, C. W., S. E. Heady, and T. A. Koch. 1992. Phenology, species composition, and possible origins of leafhoppers in Ohio vegetable crops. *J. Econ. Entomol.* 85: 2336-2343.
 23. Vaughn, T. T., and C. W. Hoy. 1993. Effects of leaf age, injury, morphology, and cultivars on flea beetle (Coleoptera: Chrysomelidae) feeding behavior. *Environ. Entomol.* 22: 418-424.
 25. Lin, H., C. W. Hoy, and G. Head. 1993. Olfactory response of larval diamondback moth, *Plutella xylostella* (Lepidoptera: Plutellidae) to permethrin formulations. *Environ. Entomol.* 22: 1096-1102.
 26. Hoy, C. W., and F. R. Hall. 1993. Feeding behavior of *Plutella xylostella* and *Leptinotarsa decemlineata* on leaves treated with *Bacillus thuringiensis* and esfenvalerate. *Pestic. Sci.* 38: 335-340.
 27. Shelton, A. M., J. Theunissen, and C. W. Hoy. 1994. Comparison of sequential, variable-intensity, and fixed-size sampling plans in cole crops. *Entomol. Exp. Appl.* 70: 209-215.
 28. Head, G., C. W. Hoy, and F. R. Hall. 1995. The quantitative genetics of behavioral and physiological response to a pyrethroid in diamondback moth. *J. Econ. Entomol.* 88: 447-453.
 29. Head, G., C. W. Hoy, and F. R. Hall. 1995. Permethrin droplets influence larval *Plutella*

- xylostella* (Lepidoptera: Plutellidae) movement. Pestic. Sci. 45: 271-278.
30. Head, G., C. W. Hoy, and F. R. Hall. 1995. Effects of direct and indirect selection on behavioral response to permethrin in larval diamondback moths. J. Econ. Entomol. 88: 461-469.
 31. Hoy, C. W. and G. Head. 1995. Correlation between behavioral and physiological responses to transgenic potatoes containing *Bacillus thuringiensis* δ -endotoxin in *Leptinotarsa decemlineata* Say (Coleoptera: Chrysomelidae) J. Econ. Entomol. 88: 480-486.
 32. Hoy, C. W., J. A. Wyman, T. T. Vaughn, D. A. East and P. Kaufman. 1996 Food, ground cover and Colorado potato beetle (Say) (Coleoptera: Chrysomelidae) dispersal in late summer. J. Econ. Entomol. 89: 963-969.
 33. Murrall, D. J., L. R. Nault, C. W. Hoy, L. V. Madden, and S. A. Miller. 1996. Effects of temperature and vector age on transmission of two Ohio strains of the aster yellows phytoplasma by the aster leafhopper. J. Econ. Entomol. 89: 1223-1232.
 34. Hoy, C. W., G. Head, and F. R. Hall. 1998. Spatial heterogeneity and insect adaptation to toxins. Ann. Rev. Entomol. 43: 571-594.
 35. Head, G., C. W. Hoy, and F. R. Hall. 1998. Genetics of response to permethrin in unexposed diamondback moth populations (Lepidoptera: Plutellidae). Ann. Entomol. Soc. Am. 91:217-221.
 36. Waller, B. E., C. W. Hoy, J. L. Henderson, B. R. Stinner, C. Welty. 1998. Matching innovations with potential users, a case study of potato IPM practices. Agric. Ecosys. Environ. 70: 203-215.
 37. Alyokhin, A., D. N. Ferro, C. W. Hoy, and G. Head. 1999. Laboratory assessment of flight activity displayed by Colorado potato beetles (Coleoptera : Chrysomelidae) fed on transgenic and Cry3A toxin-treated potato foliage. J. Econ. Entomol. 92: 115-120.
 38. Hoy, C. W. , X. Zhou, L. R. Nault, S. A. Miller, and J. Styer. 1999. Host plant, phytoplasma, reproductive status, and aster leafhopper (Homoptera: Cicadellidae) flight behavior. Annals Entomol. Soc. Am. 92: 523-528.
 39. Hoy, C. W. 1999. Colorado potato beetle resistance management strategies for transgenic potatoes. Am. J. Pot. Res. 76: 215-219.
 40. Beanland, L., C. W. Hoy, S. A. Miller, and L. R. Nault. 1999. Leafhopper (Homoptera: Cicadellidae) transmission of aster yellows phytoplasma: does gender matter? Environ. Entomol. 28: 1101-1106.
 41. Beanland, L., C. W. Hoy, S. A. Miller, and L. R. Nault. 2000. Influence of aster yellows phytoplasma on the fitness of aster leafhopper (Homoptera: Cicadellidae). Ann. Entomol. Soc. Am. 93: 271-276.
 42. Hoy, C. W., T. T. Vaughn and D. A. East. 2000. Increasing the effectiveness of spring trap crops for *Leptinotarsa decemlineata*. Entomol. Exp. Appl. 96: 193-204.
 43. Allaire, F., B. Stinner, D. Stinner, J. Hartzler, R. Moore, C. Hoy, J. Dorsey, F. Hitzhusen, and M. Weaver. 2001. Learning sustainable development with a farm enterprise and its community. J. Sust. Agric. 19: 65-83.
 44. Zhou, X., C. W. Hoy, S. A. Miller, L. R. Nault. 2002. Spatially explicit simulation of aster yellows epidemics and control on lettuce. Ecological Modeling. 151: 293-307.
 45. Miklasiewicz, T. J., P. S. Grewal, C. W. Hoy and V. S. Malik. 2002. Evaluation of entomopathogenic nematodes for suppression of carrot weevil. BioControl. 47: 545-561.
 46. Torres, A. and C. W. Hoy. 2002. Relationship between carrot weevil (Coleoptera: Curculionidae) infestation, damage, and planting dates of parsley (Apiaceae). Can. Entomol. 134: 125-135.
 47. Torres, A. and C. W. Hoy. 2002. Sampling scheme for carrot weevil (Coleoptera: Curculionidae) in parsley. Environ. Entomol. 31: 1251-1258.
 48. Yildirim, E, and C. W. Hoy. 2003. Tests of synergism between cyromazine seed treatments for green onions and entomopathogenic nematodes. Crop Protection. 22: 923-927.

49. Yildirim, E, and C. W. Hoy. 2003. Cyromazine seed treatments for green onions J. Econ. Entomol. 96: 1494-1999
50. Zhou, L., C. W. Hoy, S. A. Miller, L. R. Nault. 2003. Marking methods and field experiments to estimate aster leathopper (*Macrosteles quadrilineatus*) dispersal rates. Environ. Entomol. 32: 1177-1186.
51. Prasad, K., B. Stinner, D. Stinner, J. Cardina, R. Moore, P. K. Gupta, H. Tsuruta, K. Tanabe, K.V.S. Badarinath and C. Hoy. 2003. Trends in food production and nitrous oxide emissions from the agriculture sector in India: environmental implications. Reg. Environ. Change 3:154-161.
52. Prasad, K., K.V.S. Badarinath, H. Tsuruta, S. Dudo, S. Yonemura, J. Cardina, B. Stinner, R. Moore, D. Stinner and C. Hoy. 2003. Implications of land use changes on carbon dynamics and sequestration – evaluation from forestry datasets, India. The Environmentalist 23: 175-187.
53. Zhang, J., Hogenhout, S. A., Nault, L. R., Hoy, C. W., and Miller, S. A. 2004. Molecular and symptom analyses of phytoplasma strains from lettuce reveal a diverse population. Phytopathology 94: 842-849.
54. Torres, A. and C. W. Hoy. 2005. Relationship between carrot weevil infestation and parsley yield. J. Econ. Entomol. 98: 1213-1220.
55. Jallow, M. F. A. and C. W. Hoy. 2005. Phenotypic variation in adult behavioral response and offspring fitness in *Plutella xylostella* (Lepidoptera: Plutellidae) in response to permethrin. J. Econ. Entomol. 98: 2195-2202.
56. Beanland, L., Madden, L. V., Hoy, C. W., Miller, S. A., and Nault, L. 2005. Temporal distribution of aster leafhopper (*Macrosteles quadrilineatus*) sex ratios and spatial pattern of aster yellows phytoplasma disease in lettuce. Annals Entomological Society of America 98: 756-762.
57. Alumai, A., P. S. Grewal, C. W. Hoy and D. A. Willoughby. 2006. Factors affecting the natural occurrence of entomopathogenic nematodes in turfgrass. Biological Control. 36: 368-374.
58. Stuart, R. J., M. E. Barbercheck, P. S. Grewal, R. A. J. Taylor, and C. W. Hoy. 2006. Population Biology of Entomopathogenic Nematodes: Concepts, Issues and Models. Biological Control. 38: 80-102.
59. Lawrence, J. L., C. W. Hoy and P. Grewal. 2006. Spatial and temporal distribution of endemic entomopathogenic nematodes in a heterogeneous vegetable production landscape. Biological Control. 37: 247-255.
60. Jallow, M. and C. W. Hoy. 2006. Quantitative genetics of adult behavioral response and larval physiological tolerance to permethrin in diamondback moth *Plutella xylostella* (Lepidoptera: Plutellidae) J. Econ. Entomol. 99(4): 1388-1395.
61. Jallow, M. and C. W. Hoy. 2007. Indirect Selection for Increased Susceptibility to Permethrin in Diamondback Moth (*Plutella xylostella*) (Lepidoptera: Plutellidae). J. Econ. Entomol. 100: 526-533.
62. Konen, Joseph H., Casey W. Hoy, Maria Manta Conroy, Krishna P. Vadrevu. 2007. Sustainable community indexing, a process approach. Proceedings of the International Conference on Whole Life Urban Sustainability and its Assessment. M. Horner, C. Hardcastle, A. Price, J. Bebbington (Eds). Glasgow. 1-17.
63. Hoy, C. W., J. E. McCully, J. Laborde, A. Vargas, R. Bujanos, E. Rangel. 2007. The linkage between integrated pest management and agroecosystem management: a case study in the Bajío, México. American Entomologist. 53: 174-183.
64. Briar, S. S., Jagdale, G. B., Cheng, Z, Hoy, C. W., Miller, S. A. & Grewal, P. S. 2007. Indicative value of nematode food web indices and trophic group abundance in differentiating habitats with a gradient of anthropogenic impact. Environ. Bioindicators 2, 146-160.
65. Krishna Prasad Vadrevu, John Cardina, Fred Hitzhusen, Issac Bayoh, Richard Moore, Jason Parker, Ben Stinner, Deb Stinner and Casey Hoy. 2008. Case Study Of An Integrated Framework For Quantifying Agroecosystem Health. Ecosystems. 11, 283-306.

66. Casey W. Hoy, Parwinder S. Grewal, Janet L. Lawrence, Ganpati Jagdale, and Nuris Acosta. 2008. Canonical correspondence analysis demonstrates unique soil conditions for entomopathogenic nematode species compared with other free living nematode species. *Biological Control*. 46: 371-379.
67. Raquel Campos-Herrera, Mary Barbercheck, Casey W. Hoy, S. Patricia Stock. 2012. Entomopathogenic nematodes as a model system for advancing the frontiers of ecology. *Journal of Nematology*. 44:162-176.
68. Jung-Joon Park, Ganpati B. Jagdale, Kijong Cho, Parwinder S. Grewal, Casey W. Hoy. 2014. Spatial association between entomopathogenic and other free-living nematodes and the influence of habitat. *Applied Soil Ecology*. 76: 1-6.
69. Bautista, M. A. M., Bhandary, B., Wijeratne, A. J., Michel, A. P., Hoy, C. W. and Mittapalli, O. 2014. Evidence for trade-offs in detoxification and chemosensation gene signatures in *Plutella xylostella*. *Pest. Manag. Sci.*. doi: 10.1002/ps.3822
70. Hilbert, N., Evans-Cowley, J., Reece, J., Rogers, C., Ake, W., & Hoy, C. (2014). Mapping the cost of a balanced diet, as a function of travel time and food price. *Journal of Agriculture, Food Systems, and Community Development*. <http://dx.doi.org/10.5304/jafscd.2014.051.010>, pp. 105-127. Published online December 6, 2014
71. Harit K. Bal, Nuris Acosta, Zhiqiang Cheng, Hannah Whitehead, Parwinder S. Grewal, Casey W. Hoy. 2014. Effect of soil management on *Heterorhabditis bacteriophora* GPSII persistence and biological control in a vegetable production system, *Biological Control*. 79: 75-83. <http://dx.doi.org/10.1016/j.biocontrol.2014.08.008>.
72. Diego Rincon, Casey Hoy, Luis Cañas. 2015. Generating within-plant Spatial distributions of an insect herbivore based on aggregation patterns and per-node infestation probabilities. *Environ. Entomol.* 44(2): 194-209 (2015); DOI: 10.1093/ee/nvu022.
73. Clark, Jill K., Michelle L. Kaiser, Richard Hicks, Casey Hoy, Christy Rogers, and Colleen K. Spees. 2015. Community-University Engagement via a Boundary Object: The Case of Food Mapping in Columbus, Ohio. *Journal of Public Scholarship in Higher Education* 5: 126-142.
74. Hoy, C. W. 2015. Agroecosystem health, agroecosystem resilience, and food security. *J Environ. Stud. Sci.* Published online September 23, 2015. DOI 10.1007/s13412-015-0322-0
75. Diego Rincon, Luis Cañas, Casey Hoy. 2016. Intra-plant spatial interaction between *Delphastus catalinae* (Coleoptera: Coccinellidae) and *Bemisia tabaci* biotype B (Hemiptera: Aleyrodidae) and its effect on predation rates. *Biological Control* 95: 13-22
76. Sweeney, G., Rogers, C., Hoy, C., Clark, J. K., Usher, K., Holley, K., & Spees, C. 2015. Alternative agrifood projects in communities of color: A civic engagement perspective. *Journal of Agriculture, Food Systems, and Community Development*, 5(4), 69-75. <http://dx.doi.org/10.5304/jafscd.2015.054.005>
77. Michelle L. Kaiser, Christy Rogers, Michelle Hand, Casey Hoy, and Nick Stanich. 2017. Finding our compass: the process of building our community-university food mapping team. *Journal of Community Engagement and Scholarship*. 9(2): 19-33.
78. Diego Rincon, Luis Cañas, Casey Hoy. 2017. Modeling changes in predator functional response to prey across spatial scales. *Theoretical Ecology* 10(4): 403-415. 10.1007/s12080-017-0338-z
79. Harit K. Bal, Nuris Acosta, Zhiqiang Cheng, Parwinder S. Grewal, Casey W. Hoy. 2017. Effect of habitat and soil management on dispersal and distribution patterns of entomopathogenic nematodes. *Applied Soil Ecology*. 121: 48-59.
80. Allan D. Hollander, Casey Hoy, Patrick R. Huber, Ayaz Hyder, Matthew C. Lange, Angela Latham, James F. Quinn, Courtney M. Riggle & Thomas P. Tomich (2019) Toward Smart Foodsheds: Using Stakeholder Engagement to Improve Informatics Frameworks for Regional Food Systems, *Annals of the American Association of Geographers*. 110: 535-546. DOI: [10.1080/24694452.2019.1662764](https://doi.org/10.1080/24694452.2019.1662764)

81. Frederick Reppun, Jennifer Syvertsen, Jay Martin, Jonathan Deenik & Casey Hoy (2020) Soil management practices of farmers in the Kāne‘ohe Bay watershed and potential for implementing algae-based soil amendments, *Agroecology and Sustainable Food Systems*. 45(5): 689-717. DOI: [10.1080/21683565.2020.1813233](https://doi.org/10.1080/21683565.2020.1813233)
82. Frederick Reppun, Jennifer Syvertsen, Jay Martin, Jonathan Deenik, Casey Hoy. (2021) Effects of Fresh and Anaerobically Digested Algae (*G. salicornia*) as Soil Amendments on Yield and Nutrient Concentrations of Pak Choy. *Journal of Agroecology and Sustainable Food Systems*. 45(9): 1270-1299. DOI: [10.1080/21683565.2021.1917470](https://doi.org/10.1080/21683565.2021.1917470)

BOOK CHAPTERS

1. Susan Mahr, Jeffrey Wyman, Edward Radcliffe, Casey Hoy, and David Ragsdale. 1995. Potatoes. pp 63-76. *In Vegetable insect management with emphasis on the midwest* (Rick Foster and Brian Flood eds.) Meister Publishing, Willoughby, OH.
2. Catherine Eastman, Susan Mahr, Jeffrey Wyman, Casey Hoy, and Hassan Oloumi-Sadeghi. 1995. Cabbage, Broccoli, and Cauliflower. pp 99-112. *In Vegetable insect management with emphasis on the midwest* (Rick Foster and Brian Flood eds.) Meister Publishing, Willoughby, OH.
3. Casey Hoy. 1998. The use of extreme temperatures to control insects in the field. pp.269-285 *In Lethal temperatures in integrated pest management*. (Guy J. Hallman and David L. Denlinger eds.) Westview Press.
4. Casey Hoy, Jennifer Feldman, Fred Gould, George Kennedy, Gary Reed, and Jeffrey Wyman. 1998. Naturally occurring biological controls in genetically engineered crops. pp. 185-205 *In Conservation Biological Control*. (Pedro Barbosa ed.) Academic Press. San Diego. 396 pp.
5. Catherine Eastman, Ria Barrido, Hassan Oloumi-Sadeghi, Casey Hoy, Jeffrey Wyman, John Palumbo, Gary Leibee, and Brian R. Flood. 2005. Cabbage, Broccoli, and Cauliflower. pp 156-173. *In Vegetable insect management* (Rick Foster and Brian Flood eds.) Meister Publishing, Willoughby, OH.
6. Deana L. Sexson, Jeffrey A. Wyman, Edward B. Radcliffe, Casey W. Hoy, David W. Ragsdale, and Galen Dively. 2005. Potatoes. Pp. 92-107 *In Vegetable insect management* (Rick Foster & Brian Flood eds.) Meister Publishing, Willoughby, OH.
7. Barbercheck, M. and C. Hoy. 2006. A systems approach to conservation of entomopathogenic nematodes. Pp. 331-347. *In Nematodes as Biological Control Agents*. (Parwinder Grewal, Rolf Peters and David Shapiro-ilan, eds.) CABI, Cambridge, 505 pp.
8. Casey W. Hoy, Gilles Boiteau, Andrei Alyokhin, Galen Dively and Juan Manuel Alvarez. 2007. Managing Insect and Mite Pests. Pp. 143-147 *In Potato Health Management* (Dennis Johnson, ed.) APS Press, St. Paul, 261 pp.
9. Phil Hamm, Casey W. Hoy, Andrei Alyokhin, Galen Dively et al. 2007. Managing Pesticide Resistance. Pp. 123-131 *In Potato Health Management* (Dennis Johnson, ed.) APS Press, St. Paul, 261 pp.
10. Casey W. Hoy. 2008. Pesticide Resistance Management. Pp. 192-204 *In Integrated Pest Management* (E. B. Radcliffe and W. B. Hutchison, eds.) Cambridge University Press, Cambridge, 529 pp.
11. Casey Hoy, Steve Bosserman, and Ross MacDonald. 2012. Social Networks, Ecological Frameworks, and Local Economies. Pp. 29-54. *In Local Food Geographies: Concepts, Spatial Context, and Local Practices* (N. Reid, J. Gatrell, P. Ross, eds.).
12. Casey Hoy, Benson Lee, Steve Bosserman, and Ross MacDonald. 2013. Discourse Communities, Disconnects and Digital Media: The Case of Relocalizing Economies for Sustainable Agriculture and Energy Systems. Pp. 171-194 *In* (M. O'Rourke, S. Crowley, S. Eigenbrode, J. D. Wulforst eds.) *Enhancing Communication & Collaboration in Interdisciplinary Research*. SAGE, Thousand Oaks. 425 pp.

13. Diego F. Rincón, Eduardo M. Espitia, and Casey W. Hoy. 2018. El control biológico en el contexto de un manejo integrado estratégico de insectos plaga. (Biological control in the context of strategic integrated insect pest management). Pp. 826-847. In (A. M. Cotes, ed.) Control biológico de fitopatógenos, insectos y ácaros. Agrosavia, Mosquera. 1078 pp.
14. Casey W. Hoy. 2020. Advances in understanding agroecosystems ecology and applications to IPM. In M. Kogan & L. Higley (Eds.) Integrated pest management of insect pests: Current and future developments. Burleigh Dodds. Pp. 131-160.
15. Casey Hoy and Brian Snyder. 2020. Food and nutritional security: still the grand challenge for land grant universities. In (S. M. Gavazzi & D. J. Staley, eds.) Fulfilling the 21st Century Land-Grant Mission. The Ohio State University Press. Pp. 103-112.

ABSTRACTS

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- Hoy, C. W., and G. Head. 1994. Correlation between behavioral and physiological responses to transgenic potatoes containing *Bacillus thuringiensis* d-endotoxin in Colorado potato beetle. Proc. 2nd. National IPM Conference.
- Hoy, C. W., and X. Zhou. 1997. Spatial pattern of host and nonhost crops and the epidemiology of aster yellows. Proc. North Central Branch of the ESA.
- Miller, S. A., J. Zhang, C. W. Hoy, and L. R. Nault. 1997. Monitoring aster yellows infectivity in leafhoppers during the vegetable growing season by the polymerase chain reaction. *Phytopathology*.
- Hoy, C. W. and McCully, J., Laborde, J, Vargas A, Rafael Bujanos R, & Rangel E. 2005. Dorso de diamante y manejo integrado, 17 años de cambio en el Bajío. Memorias del VI Seminario sobre tecnología de Producción de las Crucíferas, Celaya, Guanajuato, Mexico.

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- 2 Kretchman, D., C. Hoy, M. Jameson, and C. Willer. 1988. Processing cabbage cultivar evaluation trial for northwestern Ohio. OARDC Dept. of Horticulture Publication.
- 3 Hoy, C. W., R. L. Hassel, T. A. Koch, and T. T. Vaughn. Diamondback moth and aphid control on collards, 1988. *Insecticide & Acaricide Tests: 1989.* 14: 111.
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- 5 Hoy, C. W., R. L. Hassel, T. A. Koch, and T. T. Vaughn. Control of diamondback moth and aphids on kale, 1988. *Insecticide & Acaricide Tests: 1989.* 14: 125-126.
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- 7 Hoy, C. W., R. L. Hassel, T. A. Koch, and T. T. Vaughn. Control of flea beetles on mustard greens, 1988. *Insecticide & Acaricide Tests: 1989.* 14: 127.
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- 9 Welty, C., C. W. Hoy, and H. R. Wilson. 1989. 1988 Pilot project for pest management on sweet corn in Ohio. *Ohio Pest Mgmt. and Survey Prog. Proj. Doc.* 89-1.
- 10 Welty, C., C. W. Hoy, and H. R. Wilson. 1989. 1988 Pilot project for pest management on cabbage in Ohio. *Ohio Pest Mgmt. and Survey Prog. Proj. Doc.* 89-5.
- 11 Welty, C., and C. W. Hoy. 1990. Colorado potato beetle. *Vegetable Pest Management*

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- 12 Hoy, C. W., T. A. Koch, and D. L. McCartney. Soil insect control in sweet corn, 1989. *Insecticide & Acaracide Tests*: 1990. 15: 105.
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 - 19 Vaughn, T. T., and C. W. Hoy. Control of Lepidoptera on late season cabbage, 1992. *Insecticide & Acaracide Tests*: 1993. 18: 113-114.
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- 46 Hoy, C. W., and M. J. Dunlap. Potato pest control, 1999. *Arthropod Management Tests*: 2000. 25: 137-138.
- 47 Hoy, C. W. and M. J. Dunlap. 2001 Ear infesting insect control in sweet corn, 2000. *Arthropod Management Tests* 26: E26 online.
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- 53 Hoy, C. W. and M. J. Dunlap. 2002. Control of potato leafhopper on potatoes, 2001. *Arthropod Management Tests* 27: E65
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- 55 Hoy, C. W. and M. J. Dunlap. 2003. Control of Lepidoptera on cabbage, 2002. *Arthropod Management Tests* 28: E8
- 56 Hoy, C. W. and M. J. Dunlap. 2003. Control of ear-infesting insects on sweet corn, 2002. *Arthropod Management Tests* 28: E23.
- 57 Hoy, C. W. and M. J. Dunlap. 2003. Control of potato leafhopper on potatoes, 2002. *Arthropod Management Tests* 28: E57
- 58 Hoy, C. W., M. J. Dunlap and M. F. A. Jallow. 2004. Control of Lepidoptera on cabbage, 2003. *Arthropod Management Tests* 29: E6
- 59 Hoy, C. W., M. J. Dunlap and M. F. A. Jallow. 2004. Ear-infesting insect control in sweet corn, 2003. *Arthropod Management Tests* 29: E31.
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- 61 Hoy, C. W., M. J. Dunlap and M. F. A. Jallow. 2005. Control of Lepidoptera on cabbage, 2004. *Arthropod Management Tests* 30: E8
- 62 Hoy, C. W., M. J. Dunlap and M. F. A. Jallow. 2005. Control of insect pests on collards, 2004. *Arthropod Management Tests* 30: E25.
- 63 Hoy, C. W., M. J. Dunlap and M. F. A. Jallow. 2005. Potato pest control, 2004. *Arthropod Management Tests* 30: E62
- 64 Hoy, C. W., M. J. Dunlap and M. F. A. Jallow. 2006. Control of flea beetle on broccoli, 2005. *Arthropod Management Tests* 31: E2.
- 65 Hoy, C. W., M. J. Dunlap and M. F. A. Jallow. 2006. Onion thrips control on green onion, 2005. *Arthropod Management Tests* 31: E37

- 66 Hoy, C. W., M. J. Dunlap and M. F. A. Jallow. 2006. Control of Lepidoptera on broccoli, 2005. *Arthropod Management Tests* 31: E3
- 67 Hoy, C. W., M. J. Dunlap and M. F. A. Jallow. 2006. Control of onion maggot on seed-treated bulb onions, 2005. *Arthropod Management Tests* 31: E36.
- 68 Hoy, C. W., M. J. Dunlap and M. F. A. Jallow. 2006. Potato pest control, 2005. *Arthropod Management Tests* 31: E55
- 69 Casey W. Hoy, Michael J. Dunlap. 2007. Control of flea beetle and green peach aphid on broccoli, 2006. *Arthropod Management Tests* 32: E1
- 70 Nuris M. Acosta, Mustapha F. A. Jallow, Casey W. Hoy, Michael J. Dunlap, Luis A. Cañas. 2007. Residual activity of selected insecticides for control of flea beetles, 2006. *Arthropod Management Tests* 32: E4
- 71 Casey W. Hoy, Michael J. Dunlap. 2007. Control of aster leafhopper on lettuce, 2006. *Arthropod Management Tests* 32: E16
- 72 Casey W. Hoy, Michael J. Dunlap. 2007. Potato pest control, 2006. *Arthropod Management Tests* 32: E36

INVITATIONAL PRESENTATIONS (speaker underlined)

- ESA Eastern Branch, Providence, RI 1983
Looking out for number 1...the farmer. Hoy, C. W.
- ESA National Meeting, San Antonio, TX 1984
Practical sampling strategies for some commercial vegetable crops. A. M. Shelton, J. P. Nyrop, and C. W. Hoy
- Symposio Sobre Plagas de las Cruciferas, Celaya, Guanajuato, Mexico, 1988
Techniques for sampling in commercial fields.
Predicting commercial damage caused by diamondback moth and other larvae. Hoy, C. W.
- Workshop on Development of Sampling Methods for Practical Use in Integrated Pest Management, Wageningen, The Netherlands, 1989.
Variable-intensity sampling. Hoy, C. W.
- ESA North Central Branch, Milwaukee, WI 1991
In search of optimal timing and application techniques for *B. t.* Hoy, C. W.
- ESA National Meeting, Reno, NV 1991
Cultural and behavioral manipulation of vegetable insect pests. Hoy, C. W.
- Diplomado de Administración y Eficiencia en la Producción de Hortalizas, Querétaro, Mexico, 1992
Integrated pest management for vegetable insect pests. Hoy, C. W. and A. M. Shelton
- ESA National Meeting, Indianapolis, IN 1993
Reducing uncertainty by predicting arthropod damage. Hoy, C. W.
- II Seminario Internacional Sobre Estrategias de Control de la Palomilla Dorso de Diamante en Cruciferas, Celaya, Mexico, 1995
Umbral de Control de Plagas de la Palomilla Dorso de Diamante Hoy, C. W.
- ESA National Meeting, Las Vegas, NV 1995
Formal Conference on Arthropod Resistance, Panel
Potato Association of America Meeting, Idaho Falls, ID, 1996
Avoiding resistance to transgenic potatoes in Colorado potato beetle Hoy, C. W.
- ESA North Central Branch Meeting, Columbus, OH 1997
Spatial pattern of host and nonhost crops and the epidemiology of aster yellows. Hoy, C. W. and X. Zhou
- Seminario sobre Medios de Control de la Palomilla Dorso de Diamante con Enfoque a un Manejo de la Resistencia, Celaya, Mexico, 1997
En el balance: una tabla para hoy y el Bajío para décadas. Hoy, C. W.
- International Conference of IPM: Theory & Practice, Developing Sustainable Agriculture. Guangzhou, Peoples Republic of China, 1998.
Scaling up from pest management to agroecosystem management Hoy, C. W.

- Arthropod adaptation to spatially varying toxin concentrations. Hoy, C. W.
 Landscape pattern and the epidemiology of aster yellows X. Zhou and C. W. Hoy
 Taller Internacional sobre Estrategias para Manejo Integrado de la Palomilla Dorso de
 Diamante, Celaya, Mexico, 1999
- Making the connections between pest management and agroecosystem management.
Hoy, C. W.
 V Seminario Internacional de Tecnologia de Produccion de las Cruciferas, Celaya, Mexico,
 May 18, 2001.
- Resumen y Conclusiones (Summary and Conclusions) Hoy, C. W.
 Society of Invertebrate Pathology 35th Annual Meeting, Iguassu Falls, Brazil, August 18-22,
 2002. Mathematical Modeling of Entomopathogenic Nematode Population Dynamics
Hoy, C. W., Lawrence, J. L. and Grewal, P. S.
- 5th Turkish National Congress on Biological Control, Erzurum, Turkey, September 5-7,
 2002.
- Integrating biological controls with plant defensive chemistry in vegetable crops Hoy, C.
 W.
 Entomological Society of America Annual Meeting, Ft. Lauderdale, Florida, November 17-
 20, 2002. IPM in Heading Brassicas for the Global Processing Market Hoy, C. W., and
 McCully, J. E.
- National Potato Council Seed Seminar, Portland, Maine, December 5-7, 2002. Strategies
 for Managing Colorado Potato Beetle and Resistance. Hoy, C. W.
- IX Congreso Nacional de Hortalizas. Universidad Nacional Experimental del Tachira, San
 Cristobal, Venezuela. August 5-8, 2003. "Manejo Integrado de Plagas en Hortalizas:
 Tacticas y Escalas" Hoy, C. W.
- Third International Symposium on Entomopathogenic Nematodes and Symbiotic Bacteria,
 Wooster, Ohio September 4-7, 2003. "Stochastic and Spatially Explicit Simulation
 Models: template and package for research on entomopathogenic nematode population
 dynamics." Hoy, C. W.
- Annual Meeting of the Entomological Society of America, Cincinnati, Ohio, October 26-29,
 2003. "Focusing on the cropping system, what crop and landscape characteristics are
 conducive to trap cropping?" Hoy, C. W.
- Annual Meeting of the Entomological Society of America, Cincinnati, Ohio, October 26-29,
 2003. "Linking Landscape Pattern with the Flow of Insect Pests" Hoy, C. W.
- International Congress of Entomology, Brisbane, Queensland, Australia, August 15-21, 2004.
 "Landscape Structural Design and Vegetable Pest Management" Hoy, C. W. and J. L.
 Lawrence
- Tomato IPM Workshop, Izmir, Turkey, 15 April 2005. "Insect defoliation of tomato
 seedlings, and it's effect on tomato fruit maturity and yield. C. W. Hoy, invited
 presentation.
- Annual Meeting of the Society for Invertebrate Pathology, Anchorage, AK 11 August 2005.
 "Relating entomopathogenic nematode presence and abundance to habitat variation in
 an agroecosystem." Hoy, C. W., Grewal, P., Jagdale, G., Acosta, N., and Lawrence, J.
Hoy, C. and McCully J. Agroecosystem change and biological control: 17 años en el Bajío,
 Mexico. North Central Branch Meeting of the Entomological Society of America,
 invited symposium presentation, March 2005.
- VI Seminario sobre tecnología de Producción de las Crucíferas, Celaya, Guanajuato,
 Mexico, 2 September 2005. "Dorso de diamante y manejo integrado, 17 años de cambio
 en el Bajío." Hoy, C. W. and McCully, J.
- Hoy, C. W., Grewal, P., Jagdale, G., Acosta, N., and Lawrence, J. Habitat characteristics
 and entomopathogenic nematode persistence in agroecosystems. Invited presentation
 at the CSREES Awardee Workshop on Biologically-based Pest management, Ft.
 Lauderdale, FL, 14 December 2005
- Annual Meeting of the Entomological Society of America, Indianapolis, IN, December 10-
 13, 2006. "Aster yellows from the molecular level in leafhoppers to ecosystem level
 management in vegetable crops" Hoy, C. W., S. A. Miller, and S. A. Hogenhout

- Hoy, C. W., P. S. Grewal, R. A. J. Taylor, and J. J. Park. Modeling entomopathogenic nematode population patterns and processes in ecosystems. Society for Invertebrate Pathology Meeting, Quebec City, Quebec, August 16, 2007.
- Hoy, C. W., Combining the triple bottom line into indices of agroecosystem health and community sustainability. LandInformatics Conference I, University of Illinois, September 7-8, 2007.
- Hoy, C. W., Connecting land and lifestyle: understanding the business opportunity in localization of food production, growing healthy agroecosystems and healthy local and regional economies. John Deere Innovation Center, University of Illinois, October 29, 2008.
- Hoy, C. W., Connecting land and lifestyle: understanding the business opportunity in localization of food production, growing healthy agroecosystems and healthy local and regional economies. John Deere Innovation Center, University of Illinois, October 29, 2008.
- Hoy, C. W., Ohio food, Ohio farms and the Buckeye tiger economy. Ohio Legislative Service Commission, orientation for new legislators, Columbus, November 18, 2008.
- Hoy, C. W., Ohio food policy council panel presentation. NEO Food Congress, Hiram, November 7, 2008.
- Hoy, C. W., Local food systems, Self Reliant Cities Symposium, Cleveland, OH, December 3, 2009
- Hoy, C. W., Local food systems as a strategy in agroecosystems management, ESA Annual Meeting, Section Symposium, December 15, 2009
- Hoy, Casey, Presenter. 2010. Social Networking to Build Local Economies, Starting with Food. Presented at International Geographers Union Conference on Local Food Systems in Old Industrial Regions, University of Toledo, August 5, 2010.
- Hoy, Casey, Building Infrastructure to Support Regional Systems for Specialty Crops. Presented at USDA Specialty Crops Research Initiative Project Director's Meeting, Palm Desert, CA, August 3, 2010.
- Hoy, Casey, Networking and Collaboration Infrastructure to Support Local Economies and Local Food Systems. Presented at American Society for Horticultural Science Annual Meeting, Palm Desert, CA, August 3, 2010.
- Hoy, Casey, Presenter. 2010. Discourse Communities, Disconnects and Digital Media: The Case of Relocalizing Economies for Sustainable Agriculture and Energy Systems. Presented at NSF-Univ. of Idaho Conference on Enhancing Communication in Cross Disciplinary Research. Coeur d'Alene, ID, September 30-October 2,.
- Hoy, C. W. Ohio Food, Ohio Farms, and the Buckeye Tiger Economy. Ohio Legislative Service Commission, New Member Orientation, Columbus Ohio, November 16, 2010
- Hoy, Casey, Climate Change and Vegetable IPM, the New Normal. Presented at Annual Meeting of the Entomological Society of America. San Diego, CA, December 14, 2010.
- Casey Hoy, Catalyzing Business Ecosystems for Good Food and Healthy Local Economies. Presented at Making Good Food Work. Detroit, MI. (April 20, 2011)
- Hoy, C. Ohio agriculture's past, present and future. NEO Sustainable Communities Consortium Environmental Workstream, GAR Foundation, February 17, 2012, Akron, Ohio.
- Casey Hoy. Agroecosystem Health and Food Security in an Unpredictable Climate. Reaching Resilience. Sustainable Agriculture and Food System Funders, June 22, 2015, Chicago, IL
- Casey Hoy, Modeling Entomopathogenic Nematode Population Dynamics in Agroecosystems. Annual meeting of the Society of Nematologists, July 21, 2015, East Lansing, MI
- Hoy, Casey, Weaving Networks that Transcend Disciplines. Presented at Annual Meeting of the Entomological Society of America. November 18, 2015
- Casey Hoy, Food Systems Modeling, an Approach with Ecological Roots, ESFNE Results Meeting, December 9, 2015, Greenbelt, MD

- Casey Hoy, Community Resilience and Sustainability at the Food-Energy-Water Nexus. NCSE Annual Meeting, January 19, 2016, Crystal City, VA.
- Casey Hoy, Sustainable Agriculture Education Association, Panel, UC Santa Cruz, July 31 – August 3, 2016.
- Casey Hoy, Food Systems Modeling at Local to Regional Scales, IC-Foods Conference, UC Davis, November 8, 2016
- Casey Hoy. Setting the Stage for the APLU Challenge of Change. WKKF Board of Trustees. Battle Creek, Michigan. September 20, 2017
- Casey Hoy, Support for Sustainable Agriculture Research In the Farm Bill: Agriculture and Food Research Initiative, AFRI. Berkeley Food Institute Briefing, Rayburn House Office Building, Washington DC, March 27, 2017.
- Casey Hoy, Support for Sustainable Agriculture Research In the Farm Bill: Agriculture and Food Research Initiative, AFRI. George Washington University, Washington DC, March 28, 2017.
- Casey Hoy. Setting the Stage: Tension Between Yield, Environmental Impacts, and Social Concerns. APLU The Challenge of Change: Harnessing University Discovery, Engagement, and Learning to Achieve Food and Nutrition Security. Report Rollout. Washington, DC. May 15, 2017
- Casey W. Hoy. Biotecnología en la Agricultura. Centro de Investigacion Tibaitatá Corpoica. Bogota, Columbia. July 4, 2017
- Casey Hoy, Del manejo de plagas al manejo de agroecosistemas y una seguridad alimentaria resiliente Sociedad Colombiana de Entomología, July 5, 2017 (Plenary Address, In Spanish)
- Casey Hoy, Sustainable Agriculture Education Networks for Food System Resilience, Farming for Resilient Communities: The Future of Agriculture Education in Kansas. October 16, 2017
- Casey Hoy, Food Hubs as Network Hubs. Building Regional Food Hubs. Methodist Theological School in Ohio. November 9, 2018
- Casey Hoy, Healthy agroecosystems for both IPM and food security. Entomological Society of America. Program Symposium, 2019
- Casey Hoy, Spatial aspects of insect-plant interactions. Entomological Society of America. Program Symposium, 2021 (scheduled 2020, postponed)

INVITED SEMINARS

- 18 April 1988 Department of Entomology, University of Illinois at Urbana-Champaign
Effects of intraplant spatial dynamics of cabbage caterpillars on ecologists and pest managers.
- 14 April 1989 Department of Horticulture, the Ohio State University
Adventures with insect pests of Ohio vegetables.
- 11 May 1990 Department of Entomology, the Ohio State University, O. A. R. D. C.
Caterpillar navigation on a sea of insecticide residues.
- 30 October 1990 Department of Entomology, the Ohio State University, Columbus
Caterpillars and insecticide droplets, a stroll through the minefield.
- 30 April 1993 Department of Horticulture, the Ohio State University
Using plants to manipulate insect behavior and protect crops
- 18 October 1994 Dept. of Biology, John Carroll University
Genetics, behavior, and physiology converge when insects tolerate toxins
- 17 April 1995 Department of Entomology, University of Illinois at Urbana-Champaign
Quantitative genetics of insect movers and shakers.
- 1 April 1996 Department of Entomology, University of Massachusetts
Insect movers and shakers, and the quantitative genetics behind them.
- 3 April 1996 Department of Entomology, University of Maine
Insect movers and shakers, and the quantitative genetics behind them.

14 April 1997 Department of Entomology, University of Maryland
Patchy poisons and pest perambulations.

25 November 1997 Department of Plant Pathology, Ohio State Univ. OARDC
Managing *Macrosteles* that make mollicutes mobile

25 June 1998 Institute of Zoology, Chinese Academy of Sciences, Beijing
The link between pest management and agroecosystem management

April 6, 1999 Department of Entomology, Ohio State University
Mexico and China Travelogue.

May 2000 Faculty of the College of Agriculture, Atatürk University, Erzurum, Turkey
Population dynamics of aster leafhoppers and epidemiology of aster yellows.

April 9, 2001 Institute of Plant Protection, Jiangsu Academy of Agricultural Sciences,
Nanjing, China
IPM Research in the USA: Perspective and Current Trends.

April 10, 2001 Department of Entomology, Nanjing Agricultural University, Nanjing,
China
Aster Yellows Epidemiology, from Pest Management to Agroecosystems Management.

April 11, 2001 Institute of Plant Protection, Jiangsu Academy of Agricultural Sciences,
Nanjing, China
Aster Yellows Epidemiology, from Pest Management to Agroecosystems Management.

April 13, 2001 Dept. of Entomology, Zhejiang University, Hangzhou, China
IPM Research in the USA: Perspective and Current Trends.

August 4, 2003 Universidad Nacional Experimental del Tachira, San Cristobal, Venezuela
Modelos Aplicados a Dinámicas Poblacionales
(3 hr lecture on systems analysis applied to insect ecology)

October 6, 2005 OARDC AMP Seminar Series
Agroecosystem Health: Definitions, Analytical Methods (and Change over Time)

September – March 2006-07, Departmental Seminars in Entomology, Plant Pathology,
AEDE, FABLE, SENR, H&CS
Healthy Agroecosystems and the Buckeye Tiger

October 30, 2008 Michigan State University, Department of Entomology
Healthy agroecosystems and the rise of the Great Lakes tiger economy.

September 29, 2009 Dept. of Entomology, NY State Agric. Exp. Sta., Geneva, NY
Social Networking, Local Economies, and Agroecosystem Health.

May 18, 2010 OSU Dept. of Entomology Seminar Series. Wooster, OH.
Local Food Systems, a strategy towards Healthy Agroecosystems.

September 29, 2010 BUGGS Seminar series, University of Idaho and Washington State
University
Social Networks, Business Ecosystems, and Agroecosystem Health

January 14, 2011 Dept. of Horticulture and Crop Sciences, OSU/OARDC Seminar Series.
Wooster, OH
Local food systems for agroecosystem health and resilience.

February 16, 2012 Stark State University
Agroecosystems management for sustainability and resilience.
A systems approach to managing biotechnology in agriculture.

March 16, 2012 Dept. of Entomology, University of Wisconsin
Agroecosystem Networks and Agroecosystem Health

February 28, 2014 Center for Applied Plant Sciences, OSU
Plant Sciences Applied to Agroecosystem Health, Sustainability and Resilience

April 12, 2016 7th Annual Wayne Carmichael Lecture, Wright State University
The Past, Present and Future of Food and Agriculture in Ohio, ,

September 7, 2016, Dept. of Horticulture and Crop Sciences, The Ohio State University,
The Initiative for Food and Agricultural Transformation, InFACT, It's Inevitable

September 14, 2016 Bowling Green University, Dept. of Biology
Agroecosystem Health and Food Security, Locally and Globally,

October 24, 2016 Cornell University

InFACT, The Initiative for Food and AgriCultural Transformation: Networking for Change

March 30, 2017, Michigan State University, Department of Plant Pathology
Food Security, Resilience and Agroecosystem Health

June 6-7, 2018, Union of Concerned Scientists, Capitol Hill Congressional and Senate
Offices, Washington DC. Support for Agroecology Research in the Farm Bill.

September 13, 2018 Iowa State University, Department of Agronomy
Food and AgriCultural Transformation for Agroecosystem Health

September 20, 2018 Masterminds, The Ohio State University Foundation
A Systems Approach to Food Security

PROFESSIONAL MEETING PRESENTATIONS (speaker underlined)

ESA Eastern Branch, Syracuse, NY 1981

Effectiveness of various insecticide application methods for control of lepidopterous pests on cabbage in N. Y. Andaloro, J. T., A. M. Shelton, and C. W. Hoy

ESA Eastern Branch, Hartford, CT 1982

The impact of New York State's cabbage IPM program as measured by insecticide usage and effectiveness. Hoy, C. W., J. T. Andaloro, K. B. Rose, and A. M. Shelton

ESA National Meeting, Toronto, ONT 1982

Variable intensity sampling, a new technique for decision making in cabbage pest management. Hoy, C. W., C. Jennison, A. M. Shelton, and J. T. Andaloro

ESA Eastern Branch, Hershey, PA 1984

Computerized information transfer, private and public sectors. Hoy, C. W., and J. P. Nyrop

ESA National Meeting, Hollywood, FL 1985

Factors affecting within-plant distribution of Lepidoptera on cabbage. Hoy, C. W.

Ecol. Soc. Am. International Congress, Syracuse, NY 1986

Response of *T. ni* and *A. rapae* larvae to gradients of temperature and cabbage leaf age. Hoy, C. W. and A. M. Shelton

ESA National Meeting, Reno, NV 1986

Predicting amount and location of feeding damage by Lepidoptera on cabbage plants.

Hoy, C. W. (display presentation)

ESA National Meeting, Boston, MA 1987

Toward on-line management modeling Hoy, C. W.

ESA Eastern Branch, Syracuse, NY 1988

Feasibility of inundative releases of *Amblyseius barkeri* (Hughes) for the control of *Thrips tabaci* (Lind.) on cabbage. C. S. Glenister, and C. W. Hoy (display presentation)

ESA National Meeting, Louisville, KY 1988

Strategies for releasing *Amblyseius* spp. to control thrips on cabbage Hoy, C. W. and C. S. Glenister (display presentation)

ESA National Meeting, Louisville, KY 1988

Control possibilities for Colorado potato beetle using summer oils Flessel, J. K. and C. W. Hoy

ESA National Meeting, Louisville, KY 1988

Uniform droplet application as a supplement to conventional resistance bioassays Adams, A. J., F. R. Hall, and C. W. Hoy

ESA North Central Branch, Indianapolis, IN 1989

Behavioral response of *Plutella xylostella* populations to permethrin deposits C. W. Hoy, Adams, A. J., and F. R. Hall

National IPM Symposium, Las Vegas, NV 1989

Sampling and decision support software for cabbage pest management C. W. Hoy

ESA National Meeting, San Antonio, TX 1989

Can susceptible diamondback moth populations increase despite regular insecticide applications? Hoy, C. W.

- ESA National Meeting, New Orleans, LA 1990
Feeding behavior of *Phyllotreta cruciferae* (Coleoptera: Chrysomelidae) in response to host plant volatiles Vaughn, T. T., and C. W. Hoy.
- ESA National Meeting, New Orleans, LA 1990
Relationship between behavioral and physiological resistance in two Ohio diamondback moth populations Hoy, C. W., Adams, A. J., F. R. Hall and S. Y. Nettleton
- ESA National Meeting, Reno, NV 1991
Factors influencing the pattern of colonization of potato fields by the Colorado potato beetle. East, D. A., and C. W. Hoy.
- ESA National Meeting, Reno, NV 1991
Interactions between flea beetles and host leaf wax morphology. Vaughn, T. T., and C. W. Hoy.
- ESA National Meeting, Baltimore, MD 1992
Spatial patterns of *Phyllotreta cruciferae* abundance in a vegetable growing region. Vaughn, T. T., and C. W. Hoy.
- ESA National Meeting, Baltimore, MD 1992
Orientation of flying and walking Colorado potato beetles to host plants. East, D. A., C. W. Hoy, and P. L. Phelan.
- ESA National Meeting, Baltimore, MD 1992
Behavioral response to permethrin odors in diamondback moth larvae. Lin, H., C. W. Hoy, G. Head, and F. R. Hall.
- ESA National Meeting, Baltimore, MD 1992
The population genetics of behavioral and physiological response to permethrin in the diamondback moth. Head, G., C. W. Hoy, and F. R. Hall.
- ESA National Meeting, Baltimore, MD 1992
Manipulating dispersal of Colorado potato beetles between potato crops. Hoy, C. W., J. A. Wyman, D. A. East, and P. Kaufman.
- Second Ohio Plant Biotechnology Conference, Columbus, OH 1993
Managing insect resistance to engineered plant protectants. Hoy, C. W., and G. Head
- ESA National Meeting, Indianapolis, IN 1993
Nature of and variation in behavioral response to permethrin droplets by diamondback moth larvae. Head, G., C. W. Hoy, and F. R. Hall.
- National IPM Symposium, Las Vegas, NV 1994
Correlation between behavioral and physiological responses to transgenic potatoes containing *Bacillus thuringiensis* d-endotoxin in Colorado potato beetle. C. W. Hoy and G. Head
- OARDC Annual Conference, Wooster, OH 1994
Estimating *Macrostes quadrilineatus* Forbes population growth parameters for mathematical modeling of aster yellows. M. Apelt, C. W. Hoy, L. R. Nault, and S. A. Miller
- OARDC Annual Conference, Wooster, OH 1994
Effects of temperature and vector age on transmission of two Ohio isolates of the aster yellows mycoplasma-like organism by the aster leafhopper, *Macrostes quadrilineatus* Forbes.
D. Murrall, L. R. Nault, C. W. Hoy, and S. A. Miller
- OARDC Annual Conference, Wooster, OH 1994
Barriers to adoption of cultural control tactics for Colorado potato beetle. E. A. Waller, C. W. Hoy, and J. L. Henderson
- ESA National Meeting, Dallas, TX, 1994
Comparing direct with indirect selection for resistance to *Bacillus thuringiensis* endotoxin in Colorado potato beetle. R. H. Cheverie, C. W. Hoy, and G. Head.
- ESA National Meeting, Dallas, TX, 1994
Selection for physiological and behavioral response to permethrin in a previously unexposed diamondback moth population. G. Head, C. W. Hoy, and F. R. Hall
- ESA National Meeting, Dallas, TX, 1994
Hyperthermic induction and overwintering capabilities of Colorado potato beetle adults.

- M. J. Dunlap, C. W. Hoy, and B. E. Waller
 ESA National Meeting, Dallas, TX, 1994
 Field validation of seed mixtures as a resistance management strategy for *Btt* toxin
 expressing transgenic potatoes. G. Dively, J. Feldman, C. Hoy, J. Stewart, and J.
 Wyman
 ESA National Meeting, Dallas, TX, 1994
 Modeling the development and mortality rates of *Macrosteles quadrilineatus* Forbes. M. R.
 Apelt, C. W. Hoy, and L. R. Nault
 ESA National Meeting, Dallas, TX, 1994
 Transmission of two Ohio strains of the aster yellows mycoplasma-like organism by the
 aster leafhopper. D. J. Murrall, L. R. Nault, and C. W. Hoy
 ESA National Meeting, Dallas, TX, 1994
 Barriers to adoption of cultural controls targeting overwintering Colorado potato beetle.
B. E. Waller, C. W. Hoy, and J. Henderson.
 ACS Conference on Molecular Genetics and Ecology of Resistance, Big Sky, MT, 1995
 Genetic correlations and the behavioral ecology of resistance. C. W. Hoy, G. Head, and F.
 R. Hall.
 ESA National Meeting, Louisville, KY, 1996
 Colorado potato beetle locomotory response to Bt ingestion. C. W. Hoy, and G. Head.
 ESA National Meeting, Louisville, KY, 1996
 Causes and consequences of behavioral and physiological adaptation to permethrin in
 diamondback moth. G. Head, C. W. Hoy, and F. R. Hall
 ESA National Meeting, Louisville, KY, 1996
 Modeling aster leafhopper dynamics and aster yellows epidemics. X. Zhou, C. W. Hoy, S.
 A. Miller and L. R. Nault.
 ESA National Meeting, Louisville, KY, 1996
 Influence of *Bacillus thuringiensis* subspecies *tenebrionis* delta-endotoxin on Colorado potato
 beetle flight behavior. A. Alyokhin, D. N. Ferro, and C. W. Hoy
 ESA/APS Joint Meeting, Las Vegas, NV, November 1998
 Aster leafhopper dispersal and aster yellows management. Hoy, C. W., L. R. Nault, X.
 Zhou, J. Zhang, and S. A. Miller
 ESA/APS Joint Meeting, Las Vegas, NV, November 1998
 Rapid method for detection and differentiation of aster yellows phytoplasma-infected and
 inoculative leafhoppers. J. Zhang, S. A. Miller, Hoy, C. W.*, L. R. Nault, X. Zhou,
 ESA Annual Meeting, Atlanta, GA, December 1999
 Determining the relationship between carrot weevil infestations, damage, and planting dates
 of parsley. A. Torres and C. W. Hoy
 ESA Annual Meeting, Atlanta, GA, December 1999
 Physiological basis of behavioral responses to Cry 3A toxin ingestion in *Leptinotarsa*
decemlineata. X. Liu and C. W. Hoy
 ESA Annual Meeting, Atlanta, GA, December 1999
 Evaluation of entomopathogenic nematodes for suppression of carrot weevil. T.
Miklasiewicz, V. Malik, P. Grewal and C. Hoy
 ESA Annual Meeting, Atlanta, GA, December 1999
 NCR-148 and WCC-060 Workshop: Dispersal of Insecticide resistance in *Helicoverpa zea*
 and *Heliothis virescens*. Workshop Background and Introduction. C. W. Hoy (co-
 organizer)
 Entomology Society of America Annual Meeting, Montreal, Canada, December 2000
 Spatial Pattern and decision rules for carrot weevil management in parsley. A. Torres and
 C. W. Hoy
 Entomology Society of America Annual Meeting, Montreal, Canada, December 2000
 Linking simulation with GIS to model aster leafhopper dynamics and aster yellows
 epidemics. L. Zhou and C. W. Hoy
 Entomology Society of America Annual Meeting, Montreal, Canada, December 2000

- Evaluation of entomopathogenic nematodes for suppression of carrot weevil. J. Lawrence, C. Hoy and P. Grewal
Entomology Society of America Annual Meeting, San Diego, CA, December 2001
Sampling pattern does make a difference. A. Torres and C. W. Hoy
Society of Invertebrate Pathology 35th Annual Meeting, Iguassu Falls, Brazil, August 18-22, 2002. Entomopathogenic Nematodes and Conservation Biological Control Hoy, C. W., Lawrence, J. L. and Grewal, P. S.
- Third International Symposium on Entomopathogenic Nematodes and Symbiotic Bacteria, Wooster, Ohio September 4-7, 2003. Persistence of entomopathogenic nematodes in heterogeneous landscapes in Northeast Ohio. Lawrence, J. L., Hoy, C. W., and Grewal, P.
- Third International Symposium on Entomopathogenic Nematodes and Symbiotic Bacteria, Wooster, Ohio September 4-7, 2003. Influence of host interactions on the regulation of endemic and exotic strains of the entomopathogenic nematode, *Heterorhabditis bacteriophora* Lawrence, J. L., Hoy, C. W., and Grewal, P. S.
- International Forest Insect Research and Advisory Workshop, Winter Park, CO, February 2004. Linking Landscape Pattern with the Flow of Insect Pests. Hoy, C. W.
Entomology Society of America Annual Meeting, Salt Lake City, UT, November 2004. Diamondback Moth Oviposition Preference and Offspring Performance in Response to Permethrin. M. E. A. Jallow and C. W. Hoy
- International Forest Insect Research and Advisory Workshop, Breckenridge, CO, February 2005. Agroecosystem Health, patterns processes and flows. Hoy, C. W. Hoy, C. W., Grewal, P., Jagdale, G., Alumai, A., Acosta, N., and Lawrence, J. Habitat characteristics, taxonomic group and ecosystem management influence presence of entomopathogenic nematodes. Contributed poster at the Annual Meeting of the Entomological Society of America, Ft. Lauderdale, FL, 15-18 December 2005
- International Forest Insect Research and Advisory Workshop, Breckenridge, CO, January 2006. IFIRAW assessment of the emerald ash borer. Herms, D. A., Ravlin, W. F., Stephen, F. and Hoy, C. W.
- International Forest Insect Research and Advisory Workshop, Breckenridge, CO, January 2007. Aster yellows, A model for molecular to ecosystem level research and management. Hoy, C. W., S. A. Miller, and S. A. Hogenhout
- International Forest Insect Research and Advisory Workshop, Breckenridge, CO, January 2008. Agroecosystem health, community sustainability, and forest health, concepts and potential for integration. Hoy, C. W.
- Hoy, Casey, Presenter. 2011. Climate Change, Sustainability and Resilience in Agricultural and Forest Ecosystems. Presented at International Forest Insects Research and Advisory Workshop. January 31-February 2.
- Hoy, C. 2012. Entomopathogenic nematode ecological modeling and the frontiers of ecology. International Forest Insects Research and Advisory Workshop. January 29-31, 2012, Breckenridge, CO.
- Hoy, C. 2016. The Initiative for Food and AgriCultural Transformation, and the role of agroforestry in food security. International Forest Insects Research and Advisory Workshop. January 31 – February 3, 2016, Breckenridge, CO.
- Hoy, C. 2016. The Initiative for Food and AgriCultural Transformation, and the role of agroforestry and other forest-based resources in food security. International Forest Insects Research and Advisory Workshop. January 31 – February 3, 2016, Breckenridge, CO.
- Casey Hoy. The Role of Forest Systems In Food Security. International Forest Insects Research and Advisory Workshop. January 29-February 1, 2017
- Casey Hoy. Advances in connecting integrated pest management with agroecosystems management. International Forest Insects Research and Advisory Workshop. January 28-31, 2018
- Hoy, Casey. 2018. Metrics for agroecosystem and food system transformation in Ohio. AFHVS Annual Meeting. Madison, WI.
- Hoy, Casey. 2018. Ohio State University Food Purchasing as an Economic Lever to

Improve the Lives of Vulnerable Children. AFHVS Annual Meeting. Madison, WI.
International Forest Insect Research and Advisory Workshop, Breckenridge, CO,
February 2019. Data Networks Supporting Ecosystem Service Delivery in Forested
Landscapes. Hoy, C. W.

International Forest Insect Research and Advisory Workshop, Breckenridge, CO, January
2020. Healthy forested agroecosystems for both IPM and food security. Hoy, C. W.

RECENT EXTENSION PRESENTATIONS:

1/6/05 Muck Crops School – Control of vegetable insect pests, approximately 75 participants

1/20/05 Ohio Vegetable Growers Congress – Potato session, approximately 25 participants

6/13/05 Midwest Biological Control Shortcourse – Getting biocontrol agents together with
pests for a meal. 20 participants

1/6/06 Muck Crops School – Control of vegetable insect pests, approximately 75
participants

1/17/06 Ohio Vegetable Growers Congress – Potato session, approximately 25 participants

1/5/07 Muck Crops School – What are agroecosystems and what do they have to do with
bugs?, approximately 75 participants

3/15/07 NE Region OSUE Regional Meeting of Ag and Natural Resource educators,
Sandusky, OH – the Triple Bottom Line for Ohio farms, 15 participants

3/20/07 SE Region OSUE Regional Meeting of Ag and Natural Resource educators,
Cambridge, OH – the Triple Bottom Line for Ohio farms, 12 participants

Sept. 8, 2007. Reaching consensus and mapping indices for agroecosystem health and
community sustainability. Casey Hoy and Krishna Vadrevu, University of Illinois
LandInformatics Conference, Led the workshop for 25 participants.

September 18, 2007. Farm Science Review. Agroecosystems Management Program and
Triple Bottom Line for Ohio Farms displays.

September 21, 2007. 1st Annual Stinner Summit. Facilitated the workshop to design a
project to which each of the approximately 45 participants representing agricultural and
environmental organizations and groups could contribute. The project selected is a
workshop on local foods distribution infrastructure, to be held February 2008. I chair the
organizing committee for the workshop.

November 15, 2007 North Central Region Parsley IPM strategic planning conference.
Wooster, OH, participated as a key resource for insect pest management.

2/5/09 Pennsylvania Association for Sustainable Agriculture, approximately 60 participants

1/7/10 Muck Crops School – Agroecosystems and Bugs, approximately 75 participants

2/18/10 Tuscarawas Local Foods Initiative– Growing local economies, approximately 30
participants

1/6/11 Muck Crops School – Update on Agroecosystems Research, approximately 75
participants

3/17/11 OSU Extension Local Foods Team InService – OSU Extension Educators
Opportunities to be Food System Facilitators, approximately 75 participants

3/31/11 Ohio and USDA Local Foods Initiatives Plotting the Road Forward, 30 participants
including Kathleen Merrigan, Deputy Secretary, USDA

11/4/17 Networking for Food System Resilience, Clarke County Food Policy Summit,
approximately 100 participants

12/14/17 Intro to InFACT and OSA. Extension Administration, approximately 15
participants

7/14/18 InFACT Overview, The Andersons, Maumee, OH, 8 participants

12/11/19 Systems Thinking for Agroecosystem Health and Food Security. Great Lakes
Landscape Finance Forum, Great Lakes Protection Fund, Chicago, IL.

2/26/19 Agroecosystems Management and The Initiative for Food and AgriCultural
Transformation. Knoxville Alumni Association, Knoxville, TN.

COMPETITIVE GRANTS and GIFTS (\$11,613,688 total)Federal Agencies (\$9,204,001 total)

USDA-CSRS North Central Region Competitive Grants in IPM
 Targeting the Overwintering Colorado Potato Beetle with Cultural and Physical Controls
 C. W. Hoy (PI), J. A. Wyman, and S. Kung
 Amount funded: \$96,300 for 2 years; Starting date: 1 April 1991

USDA-CSRS North Central Region Competitive Grants in IPM
 Targeting the Overwintering Colorado Potato Beetle with Cultural and Physical Controls
 C. W. Hoy (PI), J. A. Wyman, and S. Kung
 Amount funded: \$96,400 for 2 years; Starting date: 1 April 1993 (renewal)

USDA-CSRS National Research Initiative Competitive Grants Program
 Relationship Between Behavioral and Physiological Adaptation to Toxins in Diamondback Moth
 C. W. Hoy (PI) & F. R. Hall
 Amount funded: \$110,000 for 2 years; Starting date: 1 July 1991

USDA-CSRS National Research Initiative Competitive Grants Program
 Behavior, Physiology and Correlation During Selection for Insecticide Resistance
 C. W. Hoy (PI) & F. R. Hall
 Amount funded: \$110,000 for 2 years; Starting date: 1 October 1993 (renewal)

CES/USDA IPM 1992 Special Project
 Integrated Pest Management Education for Tomato Growers in the Great Lakes Region
 M. Bennett (PI), C. Hoy, R. Latin, R. Precheur, R. M. Riedel, C. Welty
 Amount funded: \$42,500 for 12 Months; Starting date: 1 July 1992

USDA Agricultural Research Service Cooperative Agreement
 Comparing Direct with Indirect Selection for Resistance to *Bacillus thuringiensis* Endotoxin
 in Colorado Potato Beetle
 C. W. Hoy (PI) and G. Head
 Amount funded: \$23,191 for 12 Months; Starting date: 1 May 1994

USDA Agricultural Research Service Cooperative Agreement
 Movement of Colorado Potato Beetle in Response to *Bacillus thuringiensis* d-Endotoxin
 C. W. Hoy (PI) and G. Head
 Amount funded: \$25,545 for 12 Months (renewal); Starting date: 1 May 1995

USDA-CSRS North Central Region Competitive Grants in IPM
 Preventing Aster Yellows Epidemics in Vegetable Crops
 S. A. Miller (PI), C. W. Hoy, and L. R. Nault
 Amount funded: \$74,960 for 2 years; Starting date: 1 July 1995

USDA-CSRS National Research Initiative Competitive Grants Program
 Optimizing management of aster leafhopper and aster yellows in vegetable crops
 C. W. Hoy (PI), S. A. Miller, & L. R. Nault
 Amount funded: \$120,000 for 2 years; Starting date: 1 October 1995

USDA Agricultural Research Service Cooperative Agreement
 Toxin dose and resistance management for Colorado potato beetle.
 C. W. Hoy (PI) and G. Head
 Amount funded: \$11,668 ; Starting date: 1 May 1997

USDA Pest Management Alternatives Program
 Implementing Nematodes for Pest Control in Vegetables in the Great Lakes Region
 P. Grewal (PI) and C. W. Hoy
 Amount funded: \$97,180 ; Starting date: 1 October 1998

USDA, CSREES Initiative for Future Agriculture and Food Systems
 Revitalizing Small and Mid-sized Farms: Organic Research, Education and Extension
 B. R. Stinner (PI), S. A. Miller, D. Stinner, R. Moore, J. Cardina, C. Hoy, P. Grewal, M. Kleinhenz, D. Doohan, F. Michel, J. Kovach
 Amount funded: \$1,800,000 for 4 years; Starting date: 15 September 2000

USDA-CSREES National Research Initiative Competitive Grants Program
 Habitat Characteristics and Entomopathogenic Nematode Persistence in Agroecosystems
 C. W. Hoy (PI) & P. S. Grewal
 Amount funded: \$206,000 for 2 years; Starting date: 1 September 2004

US Civilian Research & Development Foundation for Independent States of the Former Soviet Union. Microbial controls for pest insects of vegetable crops in Georgia.
 C. Hoy & C. Chkubianishvili.
 Amount funded \$35,000.00 for 2 years; Starting date 1 May 2005

NASA
 Linking airborne measurements of CO₂ with terrestrial sources of carbon over heterogeneous landscapes. Vadrevu, K. Prasad (PI) and Hoy, C. W.
 Amount funded: \$25,000 2005-2006.

The National Science Foundation, Graduate Teaching Fellows in K-12 Education Program
 Linking Watershed Research and GK-12 Education within an Ecosystem Context.
 Richard Moore (PI), Casey W. Hoy, Lance Williams, Patrick C. Goebel, Virginie L. Bouchard. Amount funded: \$2,914,957. 2007-2011.

USDA-CSREES Specialty Crops Research Initiative
 Social Networking, Market and Commercialization Infrastructure for Midwestern Fruit and Vegetable Crops in Local Food Systems
 Casey Hoy (PI), Steve Bosserman, Greg Boulos, Stan Ernst, Mike Hamm, Susan Smalley
 Amount funded: \$1,113,305 (in federal funds, \$1,115,844 match) for 3 years, Starting date 1 September 2008

USDA-NIFA National Research Initiative Competitive Grants Program
 Increasing the services of soil invertebrates in agroecosystems
 C. W. Hoy (PI) & P. S. Grewal
 Amount funded: \$327,981 for 3 years; Starting date: 1 September 2009

USDA-NIFA Agriculture and Food Research Initiative Competitive Grants Program
 Molecular characterization of indirect selection for increased susceptibility to insecticides
 O. Mittapalli (PI), A. P. Michel, & C. W. Hoy
 Amount funded: \$349,865 for 3 years; Starting date: 1 September 2009

USDA-NIFA Agriculture and Food Research Initiative Competitive Grants Program
 Diversification Strategy for Small and Medium-Sized Farms
 Casey Hoy (PI), H. Allen Klaiber, Subbu Kumarappan, Steve Culman, Matt Mariola, Amyaz Moledina
 Amount funded: \$384,913 for 5 years; Starting date: 1 May 2015

NSF Behavioral & Cognitive Sciences

FEW: Conference on environmental change, migration, and resilience of regional food, water and energy systems

Irwin, Elena; Faggian, Alessandra; Fiksel, Joseph; Hoy, Casey William; Martin, Jay Franklin
Amount funded: \$97,496 for 1 year; Starting date: 7 June 2015

USDA-NIFA Higher Education Challenge Grants Program

A Statewide Network for Multiple Pathways to a Baccalaureate Degree in Sustainable Agriculture

Casey Hoy (PI), C. Anelli, R. Beil, J. Boswell, J. Clark, M. Gardiner, V. R. Haden, D. Heldman, S. Hill, G. Hitzhusen, E. Irwin, B. Joseph, S. Kumarappan, C. Lowell, R. MacDonald, J. Martin, K. Mercer, S. Miller, M. Mercil, K. K. Nedunuri, J. Sharp, H. Zerby, R. Wharton

Amount funded: \$641,740 for 5 years; Starting date: March 2016

NSF Smart and Connected Communities – Research Coordinating Network

Developing an informational infrastructure for building smart regional foodsheds

Tom Tomich (PI), Casey Hoy, Ayaz Hyder, Matthew Lange, Suzanna Lewis

Amount funded: \$500,000 for 4 years; Starting date: 1 January 2018

State Agencies (\$458,354 total)

NYS Agricultural Research and Development Grant Program

Feasibility of *Amblyseius mckenziei* for the control of *Thrips tabaci* on cabbage.

C. S. Glenister and C. W. Hoy

Amount funded: \$15,536 for one year; Starting date: 1 October 1986

Ohio State University Seed Grant

Constraints of the physical environment on dispersal of the Alticinae

C. W. Hoy

Amount funded: \$16,000 for one year; Starting date: 1 April 1988

Ohio State IPM Advisory Committee

Multiple tactics to prevent Colorado potato beetle infestation in Ohio potato fields

C. W. Hoy and P. L. Phelan

Amount funded: \$3,100 for 3 months; Starting date: 1 May 1989

Ohio State IPM Advisory Committee

Pilot Project for Potato Pest Management in Wayne County

T. Beck, C. Welty, C. Hoy, R. Rowe, M. Bennett

Amount funded: \$2,850; Starting date: 1 April 1990

Ohio State IPM Advisory Committee

Extended Pilot Project for Potato Pest Management in Wayne County

T. Beck, C. Welty, C. Hoy

Amount funded: \$1,660; Starting date: 1 April 1991

Ohio State IPM Advisory Committee

Modified Pilot Project for Potato Pest Management in Wayne County

T. Beck, C. Welty, C. Hoy

Amount funded: \$ 945; Starting date: 1 April 1992

Ohio State University Interdisciplinary Seed Grants Program

Optimizing Management of Aster Yellows in Vegetable Crops: Improved Pathogen Detection and Insect Population Modeling

S. Miller, C. Hoy, L. Nault

Amount funded: \$64,464; Starting date: 1 April 1993

Ohio State IPM Advisory Committee

Improved Detection and Management of Aster Yellows in Vegetable Crops

S. A. Miller, L. R. Nault, C. W. Hoy

Amount funded: \$ 3,500; Starting date: 1 April 1994

OARDC Research Enhancement Grants Program – Interdisciplinary Grants

Improved Detection and Management of Aster Yellows in Vegetable Crops

C. W. Hoy

Amount funded: \$ 3,500; Starting date: 1 April 1994

OARDC Research Enhancement Grants Program – Interdisciplinary Grants

Landscape Pattern Indicators of Agroecosystem Health.

Hoy, C., R. Moore, J. Cardina & F. Hitzhusen.

Amount funded: \$75,695; Starting date: April, 2001.

OSU CARES

Sustainable Community Index, a Framework for Community Planning. Joseph Konen, Maria Manta Conroy, Casey Hoy, Myra Moss, Dana Oleskiewicz, and Nancy Hudson.

Amount funded: \$4250 for 18 months; Starting date: 1 January 2006.

OSU Institute for Energy and the Environment, Sustainability Enhancement Grant

The OSU-OARDC Mellinger Farm, Educational Showcase for the Energy Efficient Family Farm. Casey W. Hoy, Matt Kleinhenz, and Jay Martin.

Amount funded: \$14,730 for 12 months; Starting date: 1 June 2008.

OARDC SEEDS

Appraising Economic Development and Land-Use Policies To build Healthy Rural and Urban Communities. Mark Partridge, Casey Hoy, David Kraybill, Linda Lobao, Douglas Southgate

Amount Funded: \$96,440 for 24 months, May 1, 2008 - April 30, 2010.

OARDC SEEDS

Oilseed crops and value chains in partnership with Organic Valley. Casey Hoy

Amount Funded: \$5,850 for 12 months, May 1, 2013 - April 30, 2014.

OSU Racial Equity Seed Grant. Stepping Out & Stepping Up: Toward Truth and Reconciliation with Dispossessed Native American Tribes. Stephen M. Gavazzi, Michael Roberts, Marti Chaatsmith, Casey Hoy, John Low, Brian Snyder. Amount Funded: \$50,000 for 12 months, January 1, 2021 - December 31, 2021.

Global Arts + Humanities Discovery Theme Collaborative Centers Grant. Toward Truth and Reconciliation: Present-Day Indigenous Peoples in Ohio. John Low, Steve Gavazzi, Casey Hoy, Rick Livingston, Marti Chaatsmith and Brian Snyder. Amount Funded: \$99,834 for 12 months, January 1, 2021 - December 31, 2021.

Vegetable Commodity Research Foundations (\$108,947 total)

Ohio Fresh Market and Processing Vegetable Research Foundation
Survey of the leafhopper pest complex on muck crops areas.

C. W. Hoy

Amount funded: \$1500 for five months; Starting date: 11 April 1988

Ohio Fresh Market and Processing Vegetable Research Foundation
Development of IPM guidelines for sweet corn in Ohio.

C. Welty, C. Hoy, and H. Wilson

Amount funded: \$1,000 for 4.5 months; Starting date: 1 June 1988

Fremont Pickle and Tomato Growers Association
Forecasting Colorado potato beetle attack in tomatoes

C. W. Hoy

Amount funded: \$1170 for 2 months; Starting date: 1 May 1988

Fremont Pickle and Tomato Growers Association
Action thresholds for Colorado potato beetle in Ohio processing tomatoes

C. W. Hoy and D. W. Kretchman

Amount funded: \$1000 for 4 months; Starting date: 1 May 1989

Ohio Food Processors Association
Action thresholds for Colorado potato beetle in Ohio processing tomatoes

C. W. Hoy and D. W. Kretchman

Amount funded: \$500 for 4 months; Starting date: 1 May 1989

Ohio Fresh Market and Processing Vegetable Research Foundation
Optimal timing for multiple insecticide applications.

C. W. Hoy

Amount funded: \$750 for 4 months; Starting date: 1 June 1989

Ohio Fresh Market and Processing Vegetable Research Foundation
Control of Flea Beetle Larval Populations.

C. W. Hoy

Amount funded: \$900 for 4 months; Starting date: 1 May 1990

Ohio Fresh Market and Processing Vegetable Research Foundation
Development of IPM Guidelines for Lettuce and Greens in Ohio

C. Welty and C. W. Hoy

Amount funded: \$3,960 for 4 months; Starting date: 1 May 1991

Fremont Pickle and Tomato Growers Association
Effects of Colorado Potato Beetle Populations on Processing Tomato Yield, Uniformity,
and Diseases

C. W. Hoy, D. W. Kretchman, and R. M. Riedel

Amount funded: \$3000 for 4 months; Starting date: 15 May 1991

Ohio Fresh Market and Processing Vegetable Research Foundation
Regional Population Monitoring for Flea Beetle Pests

C. W. Hoy and Ty T. Vaughn

Amount funded: \$2,500 for 6 months; Starting date: 15 April 1992

Ohio Vegetable and Small Fruit Research and Development Program
Optimizing management of aster yellows in lettuce by improved detection of the pathogen
and use of varietal resistance.

S. A. Miller, C. W. Hoy and L. R. Nault

Amount funded: \$7000 for 12 months; Starting date: 1 May 1994

Ohio Vegetable and Small Fruit Research and Development Program
Optimizing management of aster yellows in lettuce by improved detection of the pathogen and use of varietal resistance.

S. A. Miller, C. W. Hoy and L. R. Nault

Amount funded: \$7000 for 12 months; Starting date: 1 May 1995

Ohio Vegetable and Small Fruit Research and Development Program
Phenology and distribution of carrot weevil in Ohio muck soil vegetables.

C. W. Hoy

Amount funded: \$1750 for 12 months; Starting date: 1 April 1996

Ohio Vegetable and Small Fruit Research and Development Program
Carrot weevil dispersal and control in Ohio vegetable crops.

C. W. Hoy

Amount funded: \$2500 for 12 months; Starting date: 1 April 1997

Ohio Vegetable and Small Fruit Research and Development Program
Determining the relationship between carrot weevil infestations, damage and planting dates of parsley.

A. Torres and C. W. Hoy

Amount funded: \$3500 for 12 months; Starting date: 1 April 1998

Ohio Vegetable and Small Fruit Research and Development Program
Determining the relationships among carrot weevil population density, yield, and plant size of parsley

A. Torres and C. W. Hoy

Amount funded: \$2000 for 12 months; Starting date: 1 April 1999

Ohio Vegetable and Small Fruit Research and Development Program
Developing a sampling scheme for carrot weevil in parsley. A. Torres and C. W. Hoy

Amount funded: \$2000 for 12 months; Starting date: 1 April 2000

Ohio Vegetable and Small Fruit Research and Development Program
Entomopathogenic nematode biological control in diverse vegetable production systems. J. Lawrence and C. W. Hoy.

Amount funded: \$1500 for 12 months; Starting date: 1 April 2001.

OVSFRDP and USDA Specialty Crop Block Grant
Conservation of Endemic Entomopathogenic Nematode Populations for Managing Pests in Diversified Vegetable Production

Lawrence, J. L. and Hoy, C. W.

Amount funded \$8,000 for 12 months; Starting date: 1 January 2003.

Ohio Vegetable and Small Fruit Research and Development Program
Flea beetle behavioral responses to insecticides. M. F. A. Jallow and C. W. Hoy.

Amount funded: \$3500 for 12 months; Starting date: 1 January 2005.

Ohio Vegetable and Small Fruit Research and Development Program
Flea beetle behavioral responses to insecticides. M. F. A. Jallow and C. W. Hoy.

Amount funded: \$3500 for 12 months; Starting date: 1 January 2006.

ODA and USDA Specialty Crop Block Grant
Catalyzing Farm to Institutional Food Service Specialty Crop Sales. C. W. Hoy and D. Frobose.

Amount funded \$50,417 for 12 months; Starting date: 1 January 2010.

Foundation Funding (\$1,434,436 total)

The Fund for Our Economic Future, Northeast Ohio
 Catalyzing Northeast Ohio's Agricultural & Bioscience Economies. C. W. Hoy, S.
 Bosserman, B. Gwin, J. Currie.
 Amount funded: \$625,000 Dates: 1 July 2009 – 31 March 2014.

Ceres Trust

Invasive algae as a local organic soil amendment: Participatory assessment of opportunities
 and challenges. Hoy, C. W. (& Fred Reppun, GRA). Amount funded: \$8,436 Dates: 12
 June 2015 – 31 May 2016

W. K. Kellogg Foundation

Ohio Smart Agriculture – Solutions from the Land. C. W. Hoy.
 Amount funded: \$51,000 Dates: May 2016 – April 2018.

W. K. Kellogg Foundation

Buckeye ISA, Leveraging Institutional Food Purchasing to Improve the Lives of Vulnerable
 Children. C. W. Hoy.
 Amount funded: \$750,000 Dates: Jan 2017 – December 2021.

Industry and Other Funding (\$407,950 total)

E. I. Du Pont de Nemours & Co.
 Special Grant for Science and Education, 1990
 C. W. Hoy
 \$5,000 Unrestricted Gift.

Crop Protection Industry Unrestricted Gifts
to support research in Vegetable Pest Management

1988	\$ 12,700
1989	\$ 25,000
1990	\$ 27,000
1991	\$ 19,000
1992	\$ 17,000
1993	\$ 40,000
1994	\$ 29,000
1995	\$ 25,900
1996	\$ 20,500
1997	\$ 17,500
1998	\$ 17,000
1999	\$ 17,000
2000	\$ 18,000
2001	\$ 25,600
2002	\$ 21,000
2003	\$ 15,500
2004	\$ 8,500
2005	\$ 10,500

IR-4 Food Use Projects in Vegetable Crops

1988	\$ 1,350
1990	\$ 1,000
1991	\$ 4,500
1993	\$ 1,800

1994 \$ 9,500
 1995 \$ 5,000
 1997 \$ 3,500
 1998 \$ 6,100
 1999 \$ 6,600
 2000 \$ 6,000
 2001 \$3,500
 2002 \$10,900
 2003 \$10,300
 2004 \$16,600
 2005 \$20,600
 2006 \$17,600

SERVICE

Department, College, University

OARDC Editorial Board, College of Agriculture, OSU-OARDC, 1990-present
 Manuscript Review Committee, Dept. of Entomology, OSU-OARDC, 1987-1998
 Computer Advisory Committee, Dept. of Entomology, OSU-OARDC, 1987-96, Chair 1995-96
 Seminar Committee, Dept. of Entomology, OSU-OARDC, 1987-93, Chair 89-90, 95
 Social Committee, Dept. of Entomology, OSU-OARDC, 1987-present, Chair 89-90
 Farm/Field Operations Committee, Dept. of Entomology, OSU-OARDC, Chair 1990-93, 98
 GLP Committee, Dept. of Entomology, OSU-OARDC, 1992
 Graduate Studies Committee, Dept. of Entomology, OSU, 1991-2002, Chair 1998-2001.
 Promotion and Tenure Committee, Dept. of Entomology, OSU, 1993-present
 Library Committee, College of Agriculture, OSU-OARDC, 1989-92
 Wooster Faculty Affairs Committee, College of Agriculture, OSU-OARDC, 1990-93
 OARDC Child Care Committee, OSU-OARDC, 1991-94, Chairman 1992-93
 College of Food, Agricultural and Environmental Sciences Faculty Council, 1995-1997, Executive Committee 1996,1997
 OARDC Research Advisory Team, 1995-1998
 OARDC Interdisciplinary Grant Program Panel Chair 1997-1998
 OARDC Strategic Planning Team 1996-1997, 2000
 OARDC Computer Committee, 1994-1996
 OARDC Faculty Research Awards Committee, 2000-2003
 Wooster Campus Coffee House Committee, Chair 1996
 Project Reinvent Guiding Coalition 1998-2000
 OARDC Capital Projects Planning Committee 2002-2006
 CSREES Review Planning Committee, Dept. of Entomology, OARDC, Chair 2003-2004
 OARDC Consolidated Farm Committee 2010-present
 Environmental Science Graduate Program, Graduate Studies Committee, 2010-2012, Chair 2011-2012
 College of Food, Agricultural and Environmental Sciences Promotion and Tenure Committee, 2012, 2018-2020
 Discovery Themes Faculty Advisory Board, 2013
 Convener for Climate and the Environment, Framework for Data Analytics at OSU, 2013-14
 University Promotion and Tenure Committee, 2013-2016
 Discovery Themes Initiative for Food and AgriCultural Transformation, InFACT, Faculty Lead and PI, 2014-2015, Faculty Director, 2015 - 2021.
 Buckeye Summit Planning Committee, 2015- 2016
 Panel to address the action plan for University Sustainability goal: increase production and purchase of locally and sustainably sourced food to 40% by 2025, co-chair, 2016-2018

Associations and other professional service

Ohio Potato Growers Association, Educational Advisory Committee, 1988-2005
 Co-organizer and Co-moderator, Formal Vegetable Conference, Entomological Society of America, 1993-94
 Co-moderator, Section F Program Symposium, Entomological Society of America, 1993
 Ohio Representative to NCR-148 (Migration and Dispersal of Biota) 1991-present, Chair 1998
 North Central Region Representative to the USDA-EPA-IR₄ Food Use Workshop, 1990, 1995, 1997, 1998, 1999
 Co-organizer and Co-moderator, Program Symposium NC Branch Meeting of the Entomological Society of America, Landscape pattern and pest management process, March 1997
 Reviewer for various professional journals
 ESCOP/ACOP Leadership Development Program 2000-2001
 Co-organizer, Section C Program Symposium, Entomological Society of America, 2003
 Subject Editor, Sampling, Environmental Entomology, Entomological Society of America, 2003-2006
 Ohio Food Policy Advisory Council, March 2008 – December 2010
 Food Systems Assessment Task Force, Chair
 Agricultural Viability Task Force
 2nd National Symposium on Sustainable Agriculture and Food Systems, November 8-11, 2010, Davis, CA, Organizing Committee
 Inter-institutional Network for Food and Agricultural Sustainability, 2009 – present, Executive Committee 2012- 2014, Network design team 2014-present
 APLU Commission, The Challenge of Change: Harnessing University Engagement, Learning, and Discovery to Achieve Food and Nutrition Security, May 2016 – Sept 2017
 Co-Editor, Frontiers in Sustainable Food Systems. Achieving Food System Resilience & Equity in the Era of Global Environmental Change, special topic issue 2020-2021

Research Grant Review Panels

Louisiana Board of Regents, 1990
 OSU Seed Grant Program, 1990
 Pesticides at Risk for Michigan Agriculture Grants, March 1996
 OSU-OARDC Interdisciplinary Research Grant Program, 1997, Panel Manager 1998
 USDA Northeast Region Competitive Grants in IPM, January 1993, 1996
 USDA ARS Cooperative Agreements for Potato Research, Aphid Proposals, 1993, 1995, 1997, 1998, 1999
 USDA National Research Initiative Competitive Grants Program, Entomology Review Panel, 1993, 1999
 USDA National Research Initiative Competitive Grants Program, Assessing Pest Control Strategies Review Panel, 1995
 USDA National Research Initiative Competitive Grants Program, Biologically Based Pest Management, Panel Manager, 2000
 USDA Tropical and Subtropical Agricultural Research, Caribbean section (TSTAR-C) Entomology/Nematology, 2006
 USDA Specialty Crops Research Initiative Review Panel, 2009, 2010
 USDA NIFA AFRI Program, Arthropod Foundational Review Panel, 2010, 2011
 USDA NIFA Small Business Innovation Research Review Panel, 2013
 USDA NIFA Agroecosystems Management Program Review Panel, Panel Manager, 2014, 2015