

David M. Hix

Professor

School of Environment and Natural Resources
The Ohio State University
365A Kottman Hall
2021 Coffey Road
Columbus, Ohio 43210-1085
(614) 292-1394
hix.6@osu.edu
<http://senr.osu.edu/our-people/david-hix>

Education

- 1988 Ph.D. University of Wisconsin – Madison
Major: Forestry (Silviculture and Forest Ecology)
Dissertation: *Early stand development on former oak forest ecosystems of southwestern Wisconsin*
- 1983 M.S. University of Michigan - Ann Arbor
Major: Natural Resources (Forest Ecology and Silviculture)
Thesis: *Classification, effects of clearcutting, and management recommendations for forest ecosystems of the Sylvania Recreation Area, Upper Michigan*
- 1980 B.S. University of Michigan - Ann Arbor
Major: Forestry (with Distinction)

Academic Employment

- 1991-present The Ohio State University, School of Environment and Natural Resources
Ohio Agricultural Research and Development Center
Assistant Professor, Associate Professor, Professor; Silviculture and Forest Ecology
- 1989-1991 West Virginia University, Division of Forestry
Assistant Professor, Silviculture
Assistant Forest Scientist

Other Related Employment

- 1983-1988 University of Wisconsin-Madison, Department of Forestry
Graduate Research Assistant, 1985-1988
Research Forester, 1983-1985
- 1980-1983 University of Michigan, School of Natural Resources
Graduate Research Assistant, 1980-1983
Graduate Teaching Assistant, 1981-1982
- 1979 USDA Forest Service, Beaverhead National Forest, Montana
Forestry Technician

Certifications

2002-present Certified Forester, Society of American Foresters

Courses Taught

Silviculture. The Ohio State University, School of Environment and Natural Resources. Since 1991. (Undergraduate).

Successional Dynamics of Forests. The Ohio State University, School of Environment and Natural Resources. Since 1993. (Graduate).

Biology and Identification of Woody Forest Plants. The Ohio State University, School of Environment and Natural Resources. Since 1998. (Undergraduate).

Forest Ecosystems. The Ohio State University, School of Environment and Natural Resources. Since 1999. (Undergraduate).

Study at a Foreign Institution: New Zealand. Study Abroad May sessions of 2014 and 2015.

Master of Environment and Natural Resources Project Independent Study. The Ohio State University, School of Environment and Natural Resources. Since 2013. (Graduate).

Individual Studies in Environment and Natural Resources. The Ohio State University, School of Environment and Natural Resources. Since 1991. (Graduate and Undergraduate).

Research in Natural Resources. The Ohio State University, School of Environment and Natural Resources. Since 1991. (Graduate).

Professional Survey of Forestry, Fisheries, and Wildlife. The Ohio State University, School of Environment and Natural Resources. 2004-2012. (Undergraduate). Team-taught with Dr. Stan Gehrt & other faculty members.

Professional Practice in Natural Resources. The Ohio State University, School of Environment and Natural Resources. Since 1999. (Undergraduate).

Natural Resources Practicum. The Ohio State University, School of Environment and Natural Resources. 2011. (Undergraduate).

Advanced Individual Studies. The Ohio State University, School of Environment and Natural Resources. Since 2008. (Graduate).

Forest Industries. The Ohio State University, School of Environment and Natural Resources. 2007-2008. (Undergraduate). Team-taught with Dr. Matt Bumgardner (USDA Forest Service)

Research in Environmental Science. The Ohio State University, School of Environment and Natural Resources. Since 1999. (Graduate).

Environmental Systems Science. The Ohio State University, School of Environment and Natural Resources. 2005. (Graduate). Team-taught course for educators; lectures presented on forest ecosystem science and field lab work.

Silviculture - Field Laboratory. The Ohio State University, School of Environment and Natural Resources. 1999-2003. (Undergraduate).

Silviculture - Lecture. The Ohio State University, School of Environment and Natural Resources. 1999-2003. (Undergraduate).

Internships in Natural Resources Professions. The Ohio State University, School of Environment and Natural Resources. Since 1998. (Undergraduate).

Advanced Silviculture. The Ohio State University, School of Natural Resources. 1992-1998. (Graduate).

Forest Stand Dynamics. West Virginia University, Division of Forestry, 1990-1991. (Graduate).

Silviculture. West Virginia University, Division of Forestry, West Virginia University. 1989-1990. (Undergraduate).

Remote Sensing. West Virginia University, Division of Forestry, West Virginia University. 1989. (Undergraduate).

Publications

Peer-Reviewed Journal Articles - accepted

- Radcliffe, D.C., Hix, D.M., and Matthews, S.N. 2021. Predisposing factors' effects on mortality of oak (*Quercus*) and hickory (*Carya*) species in mature forests undergoing mesophication in Appalachian Ohio. *Forest Ecosystems* 8:7. <https://doi.org/10.1186/s40663-021-00286-z>
- Nyamai, P.A., Goebel, P.C., Corace, R.G., and Hix, D.M. 2020. Regeneration patterns of key pine species in a mixed-pine forest indicate a positive effect of variable retention harvesting and an increase in recruitment with time. *Forest Ecosystems* 7:50. <https://doi.org/10.1186/s40663-020-00264-x>
- Radcliffe, D.C., Matthews, S.N., and Hix, D.M. 2020. Beyond oak regeneration: modelling mesophytic sapling density drivers along topographic, edaphic, and stand-structural gradients in mature oak-dominated forests of Appalachian Ohio. *Canadian Journal of Forest Research* 50: 1215-1227. <https://cdnsiencepub.com/doi/10.1139/cjfr-2020-0111>
- Adams, B., Iverson, L., Matthews, S., Peters, M., Prasad, A., and Hix, D.M. 2020. Mapping forest composition with Landsat time series: an evaluation of seasonal composites and harmonic regression. *Remote Sensing* 12, 610. <https://doi.org/10.3390/rs12040610>
- Palus, J.D., Goebel, P.C., Hix, D.M., and Matthews, S.N. 2018. Structural and compositional shifts in forests undergoing mesophication in the Wayne National Forest, southeastern Ohio. *Forest Ecology and Management* 430: 413-420.
- Hix, D.M. 2015. Providing the essential foundation through an experiential-learning approach: an intensive field course on forest ecosystems for undergraduate students. *Journal of Forestry* 113: 484-489.
- Nyamai, P., Goebel, P.C., Hix, D.M., Corace, R.G., and Drobyshev, I. 2014. Fire history, fuels, and overstory effects on the regeneration-layer dynamics of mixed-pine forest ecosystems of eastern Upper Michigan, USA. *Forest Ecology and Management* 322: 37-47.
- Corace, R.G., Shartell, L.M., Goebel, P.C., Kashian, D.M., Drobyshev, I., and Hix, D.M. 2014. Bird communities of reference and altered mixed-pine forests: Implications for restoring fire-dependent forest ecosystems. *Forest Ecology and Management* 318: 183-193.
- Duval, R.P., McConnell, T.E., Hix, D.M. 2014. The annual change in Ohio hardwood stumpage prices, 1960 to 2011. *Forest Products Journal* 64: 19-25.
- Duval, R.P., McConnell, T.E., Hix, D.M., Matthews, S.N., and Williams, R.A. 2014. Ohio hardwood sawlog price trends. *Wood and Fiber Science* 46: 85-96.
- Corace, R.G., Stout, A.T., Goebel, P.C., and Hix, D.M. 2013. Snag benchmarks and treatment options for mixed-pine forest restoration in eastern Upper Michigan. *Restoration Ecology* 21: 608-616.
- Miesel, J., Goebel, P.C., Corace, R.C., Hix, D.M., Kolka, R., Palik, B., Mladenoff, D. 2012. Fire effects on soils in Lake States forests: A compilation of published research to facilitate long-term investigations. *Forests* 3: 1034-1070.
- Martin, K.L. Hix, D.M., and Goebel, P.C. 2011. Coupling of vegetation layers and environmental influences in a mature, second-growth Central Hardwood forest landscape. *Forest Ecology and Management* 261: 720-729.
- Rist, S.G., Goebel, P.C., Corace, R.G., Hix, D.M., Drobyshev, I., and Casselman, T. 2011. Do partial cross sections from live trees for fire history analysis result in higher mortality 2 years after sampling? *Forest Ecology and Management* 262: 940-946.
- Corace, R.G., Goebel, P.C., Hix, D.M., Casselman, T., and Seefelt, N.E. 2009. Ecological forestry at National Wildlife Refuges: experiences from Seney National Wildlife Refuge and Kirtland's Warbler Wildlife Management Area, USA. *Forestry Chronicle* 85:695-701.
- Wilson, R.S., Hix, D.M., Goebel, P.C., and Corace, R.G. 2009. Identifying land manager objectives and alternatives for mixed-pine forest ecosystem management and restoration in eastern Upper Michigan. *Ecological Restoration* 27:407-416.

- Drobyshev, I.V., Goebel, P.C., Hix, D.M., Corace, R.G., and Semko Duncan, M.E. 2008. Interactions among forest composition, structure, fuel loadings and fire history: a case study of red pine-dominated forests of Seney National Wildlife Refuge, Upper Michigan. *Forest Ecology and Management* 256:1723-1733.
- Drobyshev, I.V., Goebel, P.C., Hix, D.M., Corace, R.G., and Semko Duncan, M.E. 2008. Pre- and post-European settlement fire history of red pine-dominated forest ecosystems of Seney National Wildlife Refuge, Upper Michigan. *Canadian Journal of Forest Research* 38:2497-2514.
- Holmes, K.L., Goebel, P.C., Hix, D.M., Dygert, C. E., and Semko-Duncan, M.E. 2005. Ground-flora composition and structure of floodplain and upland landforms of an old-growth headwater forest in north-central Ohio. *Journal of the Torrey Botanical Society* 132:62-71.
- Goebel, P.C., Hix, D.M., and Semko-Duncan, M.E. 2005. Composition and structure of two old-growth forest ecosystem types of southeastern Ohio. *Ohio Journal of Science* 105:8-16.
- Weiskittel, A.R. and D.M. Hix. 2003. Canopy gap characteristics of an oak-hickory-maple old-growth forest in northeastern Ohio. *Ohio Journal of Science* 103:111-115.
- Sutherland, E.K., B.J. Hale and D.M. Hix. 2000. Defining species guilds in the Central Hardwood Forest, USA. *Plant Ecology* 147:1-19.
- Goebel, P.C., D.M. Hix and A.M. Olivero. 1999. Seasonal ground-flora patterns and site factor relationships of second-growth and old-growth south-facing forest ecosystems, southeastern Ohio, USA. *Natural Areas Journal* 19:12-29.
- Keller, J.A. and Hix, D.M. 1999. Canopy gap fraction and origin in second-growth forests of Washington County, Ohio. *Castanea* 64:252-258.
- Olivero, A.M. and D.M. Hix. 1998. Influence of aspect and stand age on ground flora of southeastern Ohio forest ecosystems. *Plant Ecology* 139:177-187.
- Hix, D.M. and J.N. Pearcy. 1997. Forest ecosystems of the Marietta Unit, Wayne National Forest, southeastern Ohio: multifactor classification and analysis. *Canadian Journal of Forest Research* 27:1117-1131.
- Goebel, P.C. and D.M. Hix. 1997. Changes in the composition and structure of mixed-oak, second-growth forest ecosystems during the understory reinitiation stage of stand development. *Ecoscience* 4:327-339.
- Goebel, P.C. and D.M. Hix. 1996. Development of mixed-oak forests in southeastern Ohio: a comparison of second-growth and old-growth forests. *Forest Ecology and Management* 84:1-21.
- Norland, E. R. and D.M. Hix. 1996. Composition and structure of a chronosequence of young, mixed-species forests in southeastern Ohio, USA. *Vegetatio* 125:11-30.
- Hix, D.M., C.A. McNeel and E.C. Townsend. 1994. Treatments for enhancing early survival and growth of northern red oak seedlings. *Tree Planters' Notes* 45:137-141.
- Hix, D.M. and C.G. Lorimer. 1991. Early stand development on former oak sites in southwestern Wisconsin. *Forest Ecology and Management* 42:169-193.
- Hix, D.M. and C.G. Lorimer. 1990. Growth-competition relationships in young hardwood stands on two contrasting sites in southwestern Wisconsin. *Forest Science* 36:1032-1049.
- Hix, D.M. 1988. Multifactor classification and analysis of upland hardwood forest ecosystems of the Kickapoo River watershed, southwestern Wisconsin. *Canadian Journal of Forest Research* 18:1405-1415.
- Martin, A.J. and D.M. Hix. 1988. Regeneration development in an upland hardwood stand following a shelterwood harvest. *Northern Journal of Applied Forestry* 5:46-49.
- Hix, D.M., B.V. Barnes, A.M. Lynch and J.A. Witter. 1987. Relationships between spruce budworm damage and site factors in spruce-fir-dominated ecosystems of western Upper Michigan. *Forest Ecology and Management* 21:129-140.
- Hix, D.M. and B.V. Barnes. 1984. Effects of clear-cutting on the vegetation and soil of an eastern hemlock dominated ecosystem, western Upper Michigan. *Canadian Journal of Forest Research* 14:914-923.

Peer-Reviewed Journal Articles – submitted (under review) or in preparation

- Andrew, E.E., Hix, D.M., Matthews, S.N., and Goebel, P.C. Shifts in ground-flora composition from 1994 to 2016 in forest ecosystems of southeastern Ohio. In preparation for submission to *iForest - Biogeosciences & Forestry*.
- Denney, R.T.; and Hix, D.M. Current composition and structure of a disjunct eastern hemlock forest ecosystem in northwestern Alabama and modeling potential hemlock woolly adelgid infestation. In preparation for submission to *Castanea*.
- Hix, D.M., Goebel, P.C., and Semko Duncan, M. E. Composition and structure of a remnant oak forest in transition. (In preparation).

Other – accepted

- Hix, D.M., Sharp, J.S., and Matthews, S.N. 2018. Progress Report to the Society of American Foresters Committee on Accreditation. School of Environment and Natural Resources, The Ohio State University. Columbus, OH. 44 p.
- Hix, D.M., Sharp, J.S., and Matthews, S.N. 2018. Response to Information Request as an Addendum to the Progress Report to the Society of American Foresters Committee on Accreditation. School of Environment and Natural Resources, The Ohio State University. Columbus, OH. 28 p.
- Hix, D.M. 2018. Change in forest ecosystems of southeastern Ohio: Assessing past trends and predicting future plant diversity and stand structural dynamics (#2015041). SEEDS: CFAES Research Grant Program Project Final Report. School of Environment and Natural Resources, The Ohio State University. Columbus, OH. 4 p.
- Hix, D.M., Sharp, J.S., and Matthews, S.N. 2017. Progress Report to the Society of American Foresters Committee on Accreditation. School of Environment and Natural Resources, The Ohio State University. Columbus, OH. 7 p. + appendix.
- Hix, D.M. 2016. The Forest Management Program at The Ohio State University. *The Ohio Woodland Journal* 23(4): 24-26.
- Hix, D.M., Sharp, J.S. 2016. Progress Report to the Society of American Foresters Committee on Accreditation. School of Environment and Natural Resources, The Ohio State University. Columbus, OH. 7 p. + appendix.
- Hix, D.M., Sharp, J.S., Goebel, P.C., Matthews, S.N., Williams, R.A., Toman, E.M., and McConnell, T.E. 2015. Self-Evaluation Report for the Society of American Foresters: Forestry Curriculums. School of Environment and Natural Resources, The Ohio State University. Columbus, OH. 49 p.+appendices.
- Butler, P.R., Iverson, L., Thompson, III, F.R., Brandt, L., Handler, S., Janowiak, M., Shannon, P.D., Swanston, C.W., Karriker, K., Bartig, J., Connolly, S., Dijak, W., Bearer, S., Blatt, S., Brandon, A., Byers, E., Coon, C., Culbreth, T., Daly, J., Dorsey, W., Ede, D., Euler, C., Gillies, N., Hix, D.M., Johnson, C., Lyte, L., Matthews, S., McCarthy, D., Minney, D., Murphy, D., O'Dea, C., Orwan, R., Peters, M., Prasad, A., Randall, C., Reed, J., Sandeno, C., Schuler, T., Sneddon, L., Stanley, B., Steele, A., Stout, S., Swaty, R., Teets, J., Tomon, T., Vanderhorst, J., Whatley, J., and Zegre, N. 2014. Central Appalachians forest ecosystem vulnerability assessment and synthesis: a report from the Central Appalachians Climate Change Response Framework. Gen. Tech. Rep. NRS-146. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station. 310 p. [Peer-Review] http://www.fs.fed.us/nrs/pubs/gtr/gtr_nrs146.pdf
- Hix, D.M. 2015. Ohio State Forestry Program Up for Reaccreditation. The Ohio Hetuch. The Ohio Society of American Foresters. Vol. 39: 2. Columbus, OH. <http://ohiosaf.org/>

- Toman, E., Hix, D.M., Goebel, P.C., Gehrt, S.D., Wilson, R.S., Sherry, J.A., Silvis, A., Nyamai, P., Williams, R.A., and S. McCaffrey. 2014. Hazardous fuels management in mixed red pine and eastern white pine forest in the northern Lake States: A synthesis of knowledge. U.S. Dept. Agriculture, Forest Service, Northern Research Station. Gen. Tech. Rep. NRS-134. [Peer-Review]
http://www.fs.fed.us/nrs/pubs/gtr/gtr_nrs134.pdf
- Hix, D.M., McConnell, E., Smith, K., Stone, A., Struve, D., Titchenell, M., and Williams, R. 2012. Waterman 'TREE' Forest Management Plan. School of Environment and Natural Resources, The Ohio State University. 36 pp.
- Hix, D.M. 2011. History of Waterman Woodlot. Columbus: School of Environment and Natural Resources, The Ohio State University. 3 p.
- Hix, D.M., Goebel, P.C., and Whitman, H. L. 2011. Canopy gap characteristics of an old-growth and an adjacent second-growth beech-maple stand in north-central Ohio. In: Proceedings of the 17th Central Hardwood Forest Conference. Newtown Square, PA, U. S. D. A., Forest Service, Northern Research Station. p. 177-185.
- Goebel, P.C., Hix, D.M., and Whitman, H.L. 2011. Composition and structure of riparian areas along a land-use gradient in an agricultural watershed of northeastern Ohio. In: Proceedings of the 17th Central Hardwood Forest Conference. Newtown Square, PA, U. S. D. A., Forest Service, Northern Research Station. p. 186-196.
- Goebel, P.C., Hix, D.M., Wilson, R.S., and Corace, R.G. 2009. Linking ecological and structured decision-making networks to develop local- and landscape-scale restoration strategies for mixed-pine forests of Upper Michigan, USA. In: Catchpole, R. Smithers, R., Baarda, P., Eycott, A. (editors). Proceedings, Ecological Networks: Science and Practice, 16th Annual Conference of the International Association of Landscape Ecology (UK Chapter). Edinburgh University, Scotland, United Kingdom. p. 28-29.
- Goebel, P.C., Hix, D.M. 2008. Crall Woods. In: Proceedings, 2008 Central States Forest Soils Conference. The Ohio State University, Columbus, OH. p. 28-29.
- Goebel, P.C., Hix, D.M. 2008 Forest stand dynamics at Crall Woods. In: Proceedings, 2008 Central States Forest Soils Conference. The Ohio State University, Columbus, OH. p. 32-37.
- Colwell, S. R., and Hix, D.M. 2008. Adaptation of the QBR Index for use in riparian forests of central Ohio. In: Jacobs, D.F., Michler, C.H. (editors). Proceedings, 16th Central Hardwood Forest Conference. Gen. Tech. Rep. NRS-P-24. Newtown Square, PA. p. 331-340.
- Pinheiro, N. R., Goebel, P.C., and Hix, D.M. 2008. Forty-two years of change in an old-growth and second-growth beech-maple forest of north central Ohio. In: Jacobs, D.F., Michler, C.H. (editors). Proceedings, 16th Central Hardwood Forest Conf. Gen. Tech. Rep. NRS-P-24. Newtown Square, PA. p. 204-212.
- Goebel, P.C., Hix, D.M., and Corace, R.G., 2007. What did the mixed-pine forests of Upper Michigan look like in the early 1800s? Seney National Wildlife Refuge, U. S. D. I. Fish & Wildlife Service, Joint Fire Science Project Brief Number 2. 2 p.
- Goebel, P.C., Hix, D.M., Drobyshev, I.V., and Corace, R.G. 2007. Restoring mixed-pine forest ecosystems in Upper Michigan. Seney National Wildlife Refuge, U. S. D. I., Fish & Wildlife Service, Joint Fire Science Project Brief Number 1. 2 p.
- Holmes, K. L., Goebel, P.C., and Hix, D.M. 2006. Influence of landform and soil characteristics on canopy and ground-flora composition and structure of first- and second-order headwater riparian forests in unglaciated Ohio. In Proceedings, 15th Central Hardwood Forest Conference. Gen. Tech. Rep. SRS-101. Knoxville, TN. p. 325-336.
- Hix, D.M., Lorimer, C.G., Guries, R.P., and Kotar, J. 2005. A guide for classifying and managing forest sites in the Kickapoo River Watershed of southwestern Wisconsin. College of Agricultural and Life Sciences Research Report. University of Wisconsin-Madison. 68 pp.
- Hix, D.M. 2004. Self-Evaluation Report for the Society of American Foresters. Forestry, Fisheries, and Wildlife, School of Natural Resources, The Ohio State University. Columbus, OH. 210 pp.

- Yaussy, D.A., D.M. Hix, Goebel, P.C. and R.L. Long (editors). 2004. Proceedings. 14th Central Hardwood Forest Conference. March 16-19, 2004, Wooster, OH. U.S.D.A. For. Serv. G.T.R. NE-316. Newtown Square, PA. 539 p. [CD-ROM].
- Allen, B.P., Goebel, P.C., and Hix, D.M. 2004. Thirty-one years of stand development in a northern red oak (*Quercus rubra* L.) plantation, north-central Ohio, U.S.A. In: D.A. Yaussy, D.M. Hix, P.C. Goebel, and R. P. Long (editors). Proceedings, 14th Central Hardwood Forest Conference. p. 434-439. U.S.D.A. For. Serv. G.T.R. NC-316. Newtown Square, PA. 539 p. [CD-ROM].
- Goebel, P.C., D.M. Hix, and M.E. Semko-Duncan. 2003. Identifying reference conditions for riparian areas of Ohio. OARDC Special Circular 192. Wooster, OH. 27 p.
- Hix, D.M., and Helfrich, K.K. 2003. Gap characteristics of southeastern Ohio second-growth forests. In: J.W. Van Sambeek, J.O. Dawson, F. Ponder, Jr., E.F. Loewenstein, and J.S. Fralish (editors). Proceedings, 13th Central Hardwood Forest Conference. p. 247-253. U.S.D.A. G.T.R. NC-234. St. Paul, MN. 565 p.
- Goebel, P.C., Hix, D.M. Dygert, C.E., and Holmes, K.L. 2003. Ground-flora communities of headwater riparian areas in an old-growth Central Hardwood Forest. In: J.W. Van Sambeek, J.O. Dawson, F. Ponder, Jr., E.F. Loewenstein, and J.S. Fralish (editors). Proceedings, 13th Central Hardwood Forest Conference. p. 136-145. U.S.D.A. G.T.R. NC-234. St. Paul, MN. 565 p.
- Goebel, P.C., and Hix, D.M. 2003. The next 100 years - Forest ecosystem restoration in Ohio. *Ohio Woodlands* 41(1):23-25.
- Goebel, P.C., Hix, D.M., and Semko Duncan, M. E. 2003. Restoring Ohio's riparian areas: How do we know what conditions to restore to? *Ohio Woodlands* 41(2):7-9.
- Hix, D.M., and Goebel, P.C. 2003. Restoring natural disturbance regimes in Ohio's forests: The role of silviculture. *Ohio Woodlands* 41(3):5-9.
- Hix, D.M. 2003. Book Proposal Review for Delmar Learning Publishers - Introduction to Forestry: The Art and Science of Managing Forested Ecosystems. The Ohio State University, School of Natural Resources, Columbus, OH. 3 pp.
- Hix, D.M. and G.B. Smith. 2001. The role of timber harvesting in forest management. In, M.S. Ervin (ed.), *Forest Resource Issues in Ohio 2001: Legislator's Handbook, Update*. Columbus, OH: Ohio Society of American Foresters. p. 21-23.
- Pearcy, J.N., D.M. Hix, and J.R. McClenahan. 1999. Wayne National Forest ecological classification handbook. USDA Forest Service, Athens, OH. 77 p.
- Hix, D.M. 1999. Forestry education at The Ohio State University. *Hetuch* (Ohio Society of American Foresters Newsletter) 23:18.
- Hix, D.M. 1998. Accreditation Interim Status Report to the Society of American Foresters. Columbus, OH: The Ohio State University, School of Natural Resources, Forestry Faculty. 38 p.
- Hix, D.M. 1998. Review of a book edited by D.D. Reed and G.D. Mroz entitled, "Resource assessment in forested landscapes." *Choice* 35(9):1555.
- Hix, D.M. 1998. Review of a book edited by N. Eldredge entitled, "Life in the balance: humanity and the biodiversity crisis." *Choice* 36(4):2158.
- Hix, D.M. 1998. Review of a book edited by P. Savill, J. Evans, D. Auclair and J. Falck entitled, "Plantation silviculture in Europe." *Choice* 36(1):316.
- Hix, D.M., J.N. Percy and J.R. McClenahan. 1997. Development of an ecological classification system for the Wayne National Forest: Final technical report. Report to the USDA Forest Service, Columbus, OH: The Ohio State University, School of Natural Resources. 131 p.
- Goebel, P.C., and D.M. Hix. 1997. Correlations among stand ages and forest strata in mixed-oak forests of southeastern Ohio. In *Proceedings*, Pallardy, S.G., Cecich, R.A., Garrett, H.G. and Johnson, P.S. (eds.), *Eleventh Central Hardwood For. Conf.* Columbia, MO. USDA For. Serv. Gen. Tech. Rep. NC-188, p. 269-282.
- Heiligmann, R.B., E.R. Norland and D.M. Hix. 1997. Harvesting and reproduction methods for Ohio forests. Columbus, OH: The Ohio State University Extension Fact Sheet F-47-97. 5 p.

- Hix, D.M., J.N. Nichols, and R.R. Romig. 1996. Substantive Change Report to the Society of American Foresters. Columbus, OH: The Ohio State University, School of Natural Resources, Forestry Faculty. 27 p.
- Hix, D.M., and G.B. Smith. 1996. The role of timber harvesting in forest management. In, E.R. Norland and M.S. Ervin (eds.), *Forest Resource Issues in Ohio 1996: Legislator's Handbook, Second Edition*. Columbus, OH: Ohio Society of American Foresters. p. 21-23.
- Hix, D.M. 1996. Review of a book edited by M.B. Davis entitled, "Eastern old-growth forests: prospects for rediscovery and recovery." *Choice* 34(4):904.
- Hix, D.M. 1995. Effectiveness of prescribed burning in the ecological restoration of mixed-oak forest ecosystems in southern Ohio: regeneration response. Annual Report to the USDA Forest Service, Northeastern Forest Experiment Station. Columbus, OH: The Ohio State University, School of Natural Resources. 23 p.
- Hix, D.M. 1995. Graduate specializations in forestry at The Ohio State University. Revised. Columbus, OH: The Ohio State University, School of Natural Resources. 2 p.
- Hix, D.M. 1995. An analysis of the structure and development of a hemlock-hardwood stand at the Barnebey Center, Fairfield County, Ohio. Report to the Metropolitan Park District of Columbus and Franklin County. Columbus, OH: The Ohio State University, School of Natural Resources. 45 p.
- Hix, D.M. and B.J. Hale. 1995. Mechanistic models of regeneration and tree establishment. Annual Report to the USDA Forest Service, Global Change Research Program. Columbus, OH: The Ohio State University, School of Natural Resources. 9 p.
- Hix, D.M. and J.N. Pearcy. 1995. The Wayne National Forest ecological classification system project. In *Proceedings of the Central States Forest Soils Workshop*, Nelsonville, OH. p. IV:3-11 and V:3-5.
- Heiligmann, R.B., E.R. Norland and D.M. Hix. 1995. Clearcutting, shelterwood, and selection: forest regeneration methods used in Ohio. *Ohio Woodland Journal* 2:8-11.
- Pearcy, J.N., D.M. Hix and Drury, S.A. 1995. Landscape variation in species diversity and succession as related to topography, soils and human disturbance. In *Proceedings*, K.W. Gottschalk and S.L. Fosbroke (eds.), *Tenth Central Hardwood For. Conf.* Radnor, PA. USDA For. Serv. Gen. Tech. Rep. NE-197, p. 204-205.
- Hix, D.M. 1994. Review of book by F.B. Golley entitled "A history of the ecosystem concept in ecology." *Choice* 32(1):137.
- Hale, B.J. and D.M. Hix. 1994. Mechanistic models of regeneration and tree establishment. Annual Report to the USDA Forest Service, Global Change Research Program. Columbus, OH: The Ohio State University, School of Natural Resources. 5 p.
- Hix, D.M. 1994. Review of book edited by S. Woodley, J. Kay and G. Francis entitled "Ecological integrity and the management of ecosystems." *Choice* 32(5):1458.
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Selected Presentations

Invited

- Hix, D.M. 2014. Reaccreditation of The Ohio State University Forestry Curricula by the Society of American Foresters. *Summer Meeting of the Ohio Society of American Foresters*. Mansfield, OH.
- Corace, R.G., Goebel, P.C., Hix, D.M., and Kashian, D.M. 2014. Applying Wilderness Patterns and Processes to Restoration at Seney National Wildlife Refuge. *National Wilderness Conference*. Albuquerque, NM.
- Corace, R.G., Goebel, P.C., Kashian, D.M., Drobyshev, I., and Hix, D.M. 2013. Dry coniferous forest research and management, and an introduction to the Lake States Forest Science Consortium. *Michigan Society of American Foresters Summer Field Tour*. Alberta, MI.
- Goebel, P.C., and Hix, D.M. 2013. Revisiting the past to improve the future: legacy of OARDC research on mined-land reclamation in Ohio. *Midwest Chapter Meeting - Society for Ecological Restoration*. Wooster, OH.
- Goebel, P.C., Hix, D.M., Wilson, R.S., and Corace, R.G. 2009. Linking ecological and structured decision-making networks to develop local- and landscape-scale restoration strategies for mixed-pine forests of Upper Michigan, USA. Edinburgh University, Scotland, United Kingdom.
- Goebel, P.C., Hix, D.M., Corace, R.G., and Wilson, R.S. 2009. A requiem or renaissance for mixed-pine forest ecosystems of the northern Lake States, USA? Environmental Research Institute, North Highlands College, Thurso, Scotland, United Kingdom.
- Hix, D.M. 2008. Forests of Ohio. *Central States Forest Soils Conference*. Belleville, OH.
- Goebel, P.C., and Hix, D.M. 2008. Crall Woods. *Central States Forest Soils Conference – field session*. Belleville, OH.
- Colwell, S. R., and Hix, D.M. 2008. A simple index for assessing riparian forests in central Ohio. Poster presentation. *Ohio Society of American Foresters Winter Meeting*. Columbus, OH.
- Rist, S. G., Goebel, P.C., Hix, D.M., and Corace, G. R. 2008. Historical forest management on national wildlife refuges: a case study. Poster presentation. *Ohio Society of American Foresters Winter Meeting*. Columbus, OH.
- Hix, D.M., Goebel, P.C., Brown, J., Vimmerstedt, J. V., and Emmons, J. 2007. Past and future research efforts on mined-land reclamation and reforestation in Ohio. *Ohio Society of American Foresters Winter Meeting*. Columbus, OH.
- Hix, D.M. 2005. Characterizing the structure and development of Ohio's forest ecosystems: Old-growth stands as templates. *Natural Resources Graduate Program Spring Lecture Series*. The Ohio State University, Columbus, OH.
- Hix, D.M. 2005. The ecology and natural history of ash species in Ohio. *Ohio Society of American Foresters Winter Meeting*. Columbus, OH.
- Hix, D.M. 2000. The Future of the School of Natural Resources. *SNR Forum*. The Ohio State University, Columbus, OH.
- Hix, D.M. 2000. American chestnut in forest ecosystems of central Ohio. Chestnut Ridge Metro Park, Forest Field Day. Lithopolis, OH.
- Hix, D.M. 1999. Forest ecology and woody plant identification. Chestnut Ridge Metro Park, Forest Field Day. Lithopolis, OH.

- Hix, D.M. 1997. Applied forest ecology research: Developing land classification systems for the Wayne National Forest. Poster. *College of Food, Agriculture, and Environmental Sciences Annual Joint Conference*. Columbus, OH.
- Hix, D.M. and J.N. Pearcy. 1996. Ecological classification system study: background, methodology, and ecosystem hierarchy. *Wayne National Forest Ecological Classification Workshop*. Athens, OH.
- Hix, D.M. and J.N. Pearcy. 1995. The Wayne National Forest ecological classification system project. *Central States Forest Soils Workshop*. Nelsonville, OH.
- Sutherland, E.K., B.J. Hale and D.M. Hix. 1995. Regeneration attributes of central United States tree species. Poster. *Annual Meeting - Northern Global Change Research Project*. Pittsburgh, PA.
- Hix, D.M. and J.N. Pearcy. 1994. Development of an ecological classification system for the Wayne National Forest. Poster. *Forestry Sciences Laboratory Open House*. USDA Forest Service, Northeastern Forest Experiment Station, Delaware, OH.
- Pearcy, J.N., D.M. Hix and J.R. McClenahan. 1993. Wayne National Forest ecological classification system. *Ecological Classification and Inventory Workshop for the Central Hardwood Forest*. Carbondale, IL.
- Hix, D.M. 1992. Overview of ecological classification system research in southeastern Ohio. *Ohio Soil Conservation Service Annual Meeting*. Columbus, OH.
- Hix, D.M. and C.G. Lorimer. 1991. Early stand development on two former oak forest sites in southwestern Wisconsin. *Nineteenth Annual Symposium of the Hardwood Research Council*. Starkville, MS.

Other

- Matthews, S.N., Radcliffe, D.C., Adams, B., Hix, D.M., Iverson, L., and Prasad, A. 2021. Cataloging recent change in Ohio's oak dominated forests to make sense of climate change projections in habitat. International Association of Landscape Ecology - North American Annual Meeting.
- Miesel, J., McGowan-Stinski, J., Toman, E., Goebel, C., Hix, D.M., Kashian, D., Kolka, R., Palik, B., and Brian Sturtevant, B.. 2020. Training the next generation of fire professionals to bridge research-management communities. Poster presentation. Conference of the Stewardship Network. East Lansing, MI.
- Miesel, J., McGowan-Stinski, J., Toman, E., Goebel, C., Hix, D.M., Kashian, D., Kolka, R., Palik, B., and Brian Sturtevant, B.. 2019. Training the next generation of fire professionals to bridge research-management communities. Poster presentation. 8th International Fire Ecology and Management Congress. Tucson, AZ.
- Radcliffe, D., Matthews, S.N., and Hix, D.M. 2019. Effects of topography and soil on mesophytic sapling dynamics in mature oak-Hardwood forests of southeast Ohio. Oral presentation. Society of American Foresters National Convention. Louisville, KY.
- Radcliffe, D., Hix, D.M., and Matthews, S.N. 2019. Oak and hickory mortality patterns in mature low-disturbance forests of Appalachian Ohio. Oral presentation. Society of American Foresters National Convention. Louisville, KY.
- Radcliffe, D., Hix, D.M., and Matthews, S.N. 2018. Successional dynamics of oaks and maples in mature second-growth forests, varying by slope aspect in Ohio. Oral presentation. Society of American Foresters National Convention. Portland, OR.
- Radcliffe, D., Matthews, S.N., and Hix, D.M. 2018. Implications of changing oak and maple dynamics for understanding stability of wildlife habitats in southeast Ohio. Oral presentation. The Wildlife Society Annual Conference. Cleveland, OH.
- Hix, D.M., Matthews, S.N., Goebel, P.C., Andrew, E.E., Palus, J.D., and Radcliffe, D.C. 2017. Quantifying change in hardwood forests across the ecological land types of the Wayne National Forest. *Central Hardwood Forest Conference*. Oral presentation. Bloomington, IN.
- Radcliffe, D., Matthews, S.N., Hix, D.M., and Goebel, P.C. 2017. Oak decline and maple increase includes favorable aspects. *Society of American Foresters National Convention*. Poster presentation. Albuquerque, NM.

- Matthews, S.N., Hix, D.M., Palus, J.D., Andrew, E.E., Goebel, P.C., and Radcliffe, D. 2017. Assessing change in hardwood forests of the Wayne National Forest, southeastern Ohio. *Oak Symposium: Sustaining oak forests in the 21st century through science-based management*. Poster presentation. Knoxville, TN.
- Palus, J.D., Andrew, E.E., Goebel, P.C., Hix, D.M., and Matthews, S.N. 2017. Factors driving forest succession in oak–hickory forests of the Wayne National Forest, southeastern Ohio. *Midwest-Great Lakes Society for Ecological Restoration Annual Meeting*. Oral presentation. Grand Rapids, MI.
- Palus, J.D., Andrew, E.E., Goebel, P.C., Hix, D.M., and Matthews, S.N. 2017. Successional trajectories of contrasting ecological land types in the Wayne National Forest, southeastern Ohio. Poster presentation. Ohio Agricultural Research and Development Center Annual Conference. April 20, 2017. Wooster, OH.
- Andrew, E.E., Palus, J.D., Hix, D.M., Goebel, P.C., and Matthews, S.N. 2017. Compositional Change of Ground Flora in Forest Ecosystems of Southeastern Ohio over Twenty Years. Poster presentation. Ohio Agricultural Research and Development Center Annual Conference. April 20, 2017. Wooster, OH.
- Palus, J.D., Andrew, E.E., Goebel, P.C., and Hix, D.M. 2016. Environmental influences on canopy disturbance histories in mature oak-hickory forests in southeastern Ohio. *Cleveland Museum of Natural History Conservation Symposium*. Poster presentation. Cleveland, OH.
- Palus, J.D., Andrew, E.E., Goebel, P.C., and Hix, D.M. 2016. Environmental influences on canopy disturbance histories in mature oak-hickory forests in southeastern Ohio. *Ohio Academy of Science Annual Meeting*. Athens, OH.
- Palus, J.D., Andrew, E.E., Goebel, P.C., and Hix, D.M. 2016. Environmental influences on canopy disturbance histories in mature oak-hickory forests in southeastern Ohio. *Midwest-Great Lakes Society for Ecological Restoration Annual Meeting*. Poster presentation. Bloomington, IN.
- Denney, R.T., and Hix, D.M. 2016. Current composition and structure of a disjunct eastern hemlock forest ecosystem in northwestern Alabama and modeling potential hemlock woolly adelgid infestation. *Denman Undergraduate Research Forum*. Poster presentation. Columbus, OH.
- Denney, R.T.; Hix, D.M. 2016. Current composition and structure of a disjunct eastern hemlock forest ecosystem in northwestern Alabama and modeling potential hemlock woolly adelgid infestation. *Ohio Academy of Science Annual Meeting*. Athens, OH.
- Andrew, E.E.; Palus, J.D.; Hix, D.M.; Goebel, P.C.; Matthews, S.N. 2016. Ground-flora compositional change in southeastern Ohio. *Society of American Foresters National Convention*. Poster presentation. Madison, WI.
- Hix, D.M.; McGowan-Stinski, J.; Goebel, C.; Roise, J.; Long, A.; Edwards, G.; Cheng, T. 2016. Linking science and natural resource management through the JFSP Fire Science Exchange Network. *Society of American Foresters National Convention*. Poster presentation. Madison, WI.
- Palus, J.D.; Andrew, E.E.; Goebel, P.C.; Hix, D.M. 2016. Environmental influences on canopy disturbance histories in mature oak-hickory forests in southeastern Ohio. *OARDC Annual Conference*. Poster presentation. Wooster, OH.
- Palus, J.D.; Andrew, E.E.; Goebel, P.C.; Hix, D.M.; Matthews, S.N. 2016. Forest succession and mesophication in oak–hickory forests of the Wayne National Forest, southeastern Ohio. *Society of American Foresters National Convention*. Poster presentation. Madison, WI.
- Denney, R.T.; Hix, D.M. 2016. Current composition and structure of a disjunct eastern hemlock forest ecosystem in northwestern Alabama and modeling potential hemlock woolly adelgid infestation. *CFAES Undergraduate Research Forum*. Poster presentation. Columbus, OH.
- Denney, R.T., Hix, D.M. 2015. Current Composition and Structure of an Eastern Hemlock Ecosystem in Alabama. *Society of American Foresters National Convention*. Baton Rouge, LA.
- Hix, D.M. 2014. Providing the essential foundation: learning about forest ecosystems in the field as the basis for their management. *10th Biennial Conference on University Education in Natural Resources*. Auburn, AL.

- Hix, D.M., Goebel, P.C., Nyamai, P.A., and Corace, R.G. 2014. Restoration of mixed-pine forest ecosystems of eastern Upper Michigan using variable-retention harvesting. *XIV IUFRO World Forestry Congress*. Salt Lake City, UT.
- Hix, D.M., Macy, T.D., Goebel, P.C., and Matthews, S.N. 2014. Eastern hemlock-dominated forest ecosystems of northeastern Ohio and possible changes with the impending infestation by the Hemlock Woolly Adelgid. *XIV IUFRO World Forestry Congress*. Salt Lake City, UT.
- Miesel, J.R., Goebel, P.C., Corace, R.G., Hix, D.M., Kolka, R., Palik, B., Toman, E., Wilson, R. 2013. Lake States Fire Science Consortium information resources for fire practitioners and researchers. *The Stewardship Network Conference*. East Lansing, MI.
- Nyamai, P., Goebel, P.C., Hix, D.M., and Corace, R.G. 2013. Initial regeneration and litter decomposition response following a variable-retention harvest in mixed-pine forests of eastern Upper Michigan. *Midwest Chapter Meeting - Society for Ecological Restoration*. Wooster, OH.
- Corace, R.G., Goebel, P.C., Drobyshev, I., and Hix, D.M. 2012. Is mixed-pine forest restoration in the Upper Peninsula of Michigan for the birds? *Michigan Bird Conservation Initiative Workshop*. Tustin, MI.
- Nyamai, P.A., Goebel, P.C., Hix, D.M., and Corace, R.G. 2012. Initial seedling densities following a variable retention harvest in a mixed-pine forest ecosystem of the eastern Upper Peninsula of Michigan. Poster presentation. *4th International EcoSummit on Ecological Sustainability*. Columbus, OH.
- Saintignon, D., and Hix, D.M. 2011. The effects of Lycasoid spider density within trophic cascades. *5th Annual Fall Undergraduate Student Research Poster Forum*. The Ohio State University. Columbus, OH.
- Miller, A., and Hix, D.M. 2011. The effects of soil parameters on the growth and survival of chestnut. Poster presentation. *16th Annual Denman Undergraduate Research Forum*. The Ohio State University. Columbus, OH.
- Goebel, P.C., Hix, D.M., Wilson, R.W., Corace, R.G., and Toman, E.L. 2010. Linking ecological and structural decision-making networks to develop restoration strategies for mixed-pine forests of Upper Michigan, USA. *U.S. Department of Interior Conference on the Environment*. Portland, OR.
- Goebel, P.C., Hix, D.M., Corace, R. G., and Wilson, R.S. 2009. Restoration-based fuel reduction recommendations for mixed-pine forests of Upper Michigan. Poster presentation. *4th International Congress of Fire Ecology and Management Congress*, Savannah, GA.
- Hix, D.M., Goebel, P.C., Wilson, R., Drobyshev, I., Corace, R. G., and Rist, S. G. 2008. Using fire history, vegetation and risk analyses to develop integrated strategies for mixed-pine forest restoration in Upper Michigan. Poster presentation. *Ecological Society of America Annual Meeting*, Milwaukee, WI.
- Colwell, S. R., Hix, D.M., 2008. A simple index for assessing riparian forests in central Ohio. Poster presentation. *Ohio Society of American Foresters Winter Meeting*, Columbus, OH.
- Rist, S. G., Goebel, P.C., Hix, D.M., Corace, G. R., 2008. Historical forest management on national wildlife refuges: a case study. Poster presentation. *Ohio Society of American Foresters Winter Meeting*, Columbus, OH.
- Rist, S. G., Goebel, P.C., Hix, D.M., 2008. Radial growth response in old-growth mixed-pine ecosystems of Upper Michigan. Poster presentation. *Society of American Foresters National Convention*, Reno, NV.
- Whitman, H. Goebel, P.C., Hix, D.M., 2008. Canopy gaps in an old-growth and adjacent second-growth beech-maple stand. Poster presentation. *Society of American Foresters National Convention*. Reno, NV.
- Rist, S. G., Goebel, P.C., Hix, D.M., and Corace, R. G. 2007. Historical forest management on national wildlife refuges: a case study. Poster presentation. *Society of American Foresters National Convention*, Portland, OR.
- Goebel, P.C., Hix, D.M., Drobyshev, I., Corace, R., Wilson, R. S., and Palik, B. 2007. Restoration-based fuel reduction recommendations for mixed-pine forests of Upper Michigan. Poster presentation. *Society of American Foresters National Convention*, Portland, OR.
- Colwell, S. R., and Hix, D.M. 2007. A simple index for assessing riparian forests in central Ohio. Poster presentation. *Society of American Foresters National Convention*, Portland, OR.

- Drobyshev, I., Goebel, P.C., Hix, D.M., Corace, G. R., and Semko-Duncan, M. E. 2007. Fire history of red pine-dominated forests of Seney National Wildlife Refuge, Upper Michigan. Oral presentation. *Second Fire Behavior and Fuels Conference*. Joint Fire Science Research Program. Destin, FL.
- Drobyshev, I. V., Goebel, P.C. Hix, D.M., Corace, G., and Semko-Duncan, M. E. 2007. Interactions between forest disturbance and forest structure: a case study of red pine-dominated forests of Seney National Wildlife Refuge, Upper Michigan. Oral presentation. *Sixth North American Forest Ecology Workshop*. Vancouver, BC. Canada.
- Pinheiro, N., Drobyshev, I., Goebel, P.C., Semko-Duncan, M. E., Holmes, K. L., and Hix, D.M. 2007. Composition, structure, and history of an old-growth beech-maple forest of the lower Great Lakes region, USA. Poster presentation. *Sixth North American Forest Ecology Workshop*. Vancouver, BC. Canada.
- Drobyshev, I., Goebel, P.C., Hix, D.M., Corace, G. R., and Semko-Duncan, M. E. 2007. Fire history of red pine-dominated forests of Seney National Wildlife Refuge, Upper Michigan. *34th Natural Areas Conference*. Cleveland, OH.
- Drobyshev, I., Pinheiro, N., Semko-Duncan, M. E., Holmes, K. L., Hix, D.M., and Goebel, P.C., 2007. Composition, structure, and history of an old-growth beech-maple forest of the lower Great Lakes region, USA. Poster presentation. *34th Natural Areas Conference*. Cleveland, OH.
- Goebel, P. D., Holmes, K. L., Semko-Duncan, M. E., and Hix, D.M. 2007. Hierarchical controls on riparian ground-flora composition and structure in beech-maple forest ecosystems of the lower Great Lakes. Poster presentation. *34th Natural Areas Conference*. Cleveland, OH.
- Colwell, S. R., and Hix, D.M. 2006. Application of the QBR index to the riparian forests of several central Ohio streams. Poster presentation. *3rd Annual CFAES Undergraduate Research Forum*. The Ohio State University - Columbus.
- Colwell, S. R., and Hix, D.M. 2006. The application of the QBR index to the riparian forests of several central Ohio streams. Poster presentation. *11th Annual Denman Undergraduate Research Forum*. The Ohio State University - Columbus.
- Colwell, S. R., and Hix, D.M. 2006. Application of the QBR index to the riparian forests of several central Ohio streams. Poster presentation. *115th Annual Meeting of the Ohio Academy of Science*. Dayton, OH.
- Drobyshev, I.V., Pinheiro, N., Semko Duncan, M.E., Holmes, K.L., Hix, D.M., and Goebel, P.C. 2006. Composition, structure, and history of an old-growth beech-maple forest of the Lower Great Lakes region, USA. Poster presentation. *91st Annual Meeting of the Ecological Society of America*. Memphis, TN.
- Goebel, P.C., Hix, D.M., Dygert, C. E., Semko Duncan, M. E., and Holmes, K. L. 2006. Composition and structure of an old-growth white oak forest in transition. Poster presentation. *15th Central Hardwood Forest Conference*, Knoxville, TN.
- Holmes, K. L., Goebel, P.C., and Hix, D.M. 2006. Influence of landform and soil characteristics on canopy and ground-flora composition and structure of first and second order headwater riparian forests in unglaciated Ohio. *15th Central Hardwood Forest Conference*, Knoxville, TN.
- Allen, B.P., Goebel, P.C., and Hix, D.M. 2004. Thirty-one years of stand development in a northern red oak (*Quercus rubra* L.) plantation, north-central Ohio, U.S.A. *14th Central Hardwood Forest Conference*. Wooster, OH.
- Holmes, K.L., Goebel, P.C., and Hix, D.M. 2003. Vegetation-environment relationships of canopy and ground-flora species in riparian forests of unglaciated Ohio. Poster presentation. *4th North American Forest Ecology Workshop*. Corvallis, OR.
- Hix, D.M., and Helfrich, K. K. 2002. Gap characteristics of southeastern Ohio second-growth forests. *13th Central Hardwood Forest Conference*. Urbana, IL.
- Goebel, P.C., Hix, D.M., Dygert, C. E., and Holmes, K. L. 2002. Vegetation-environment relationships of old-growth headwater riparian areas of north-central Ohio. *13th Central Hardwood Forest Conference*. Urbana, IL.

- Goebel, P.C., Hix, D.M., Dygert, C.E., and K.L. Holmes. 2002. Vegetation-environment relationships of old-growth headwater riparian areas of north-central Ohio. *111th Annual Meeting of The Ohio Academy of Science*. Bexley, OH.
- Weiskittel, A.R. and D.M. Hix. 2001. Canopy gap characteristics of an oak-hickory-maple old-growth forest of Wayne County, Ohio. *The Ohio State University, Denman Undergraduate Research Forum*. Columbus, OH.
- Heimberger, P.A. and D.M. Hix. 1999. Composition, structure, and successional dynamics of Johnson Woods, an old-growth forest fragment in transition. *108th Annual Meeting of The Ohio Academy of Science*. Cleveland, OH.
- Hix, D.M., Goebel, P.C. and A.M. Olivero. 1999. Comparison of two old-growth ecosystem types of southeastern Ohio. Poster presentation. *5th Eastern U.S. Old-Growth Forest Conference*. Duluth, MN.
- Hix, D.M., Goebel, P.C. and A.M. Olivero. 1999. Ground-flora differences in relation to contrasting overstory composition, structure, and age. *2nd North American Forest Ecology Workshop*. Orono, ME.
- Hix, D.M., Goebel, P.C. and A.M. Olivero. 1997. Composition and structure of two contrasting southeastern Ohio old-growth forest ecosystems. *First Biennial North American Forest Ecology Workshop*. Raleigh, NC.
- Hix, D.M. and J.N. Percy. 1997. Ecological classification systems for the Wayne National Forest. Poster presentation. *Eleventh Central Hardwood For. Conf.* Columbia, MO.
- Goebel, P.C., and D.M. Hix. 1997. Correlations among stand ages and forest strata in mixed-oak forests of southeastern Ohio. *Eleventh Central Hardwood For. Conf.* Columbia, MO.
- Olivero, A.M. and D.M. Hix. 1996. Influences of aspect and stand age on ground flora of forest ecosystems in southeastern Ohio. *Sixteenth Midwest Ecology and Evolution Conf.* East Lansing, MI.
- Goebel, P.C. and D.M. Hix. 1995. A comparison of the compositions and structures of second-growth and old-growth forest ecosystems in southeastern Ohio. *Ann. Mtg. Ecol. Soc. Amer.* Snowbird, UT.
- Hale, B.J., E.K. Sutherland and D.M. Hix. 1995. Grouping of central United States tree species as a function of regeneration attributes. Poster presentation. *Ann. Mtg. Ecol. Soc. Amer.* Snowbird, UT.
- Hix, D.M. and J.N. Percy. 1995. A preliminary ecological classification system for the Marietta Unit of the Wayne National Forest. *Ann. Mtg. Ohio Academy of Science*. Westerville, OH.
- Goebel, P.C. and D.M. Hix. 1995. Successional dynamics of second-growth and old-growth forest ecosystems. *Ann. Mtg. Ohio Academy of Science*. Westerville, OH.
- Norland, E.R. and D.M. Hix. 1995. Forest stand development on 6-26 year-old clearcuts in southeastern Ohio. Poster presentation. *Tenth Central Hardwood For. Conf.* Morgantown, WV.
- Percy, J.N., D.M. Hix and Drury, S.A. 1995. Landscape variation in species diversity and succession as related to topography, soils and human disturbance. *Tenth Central Hardwood For. Conf.* Morgantown, WV.
- Norland, E.R. and D.M. Hix. 1994. Forest stand development on 6-26 year-old clearcuts in southeastern Ohio. Poster presentation. *OARDC BioOhio Open House*, Wooster, OH.
- McNeel, C.A., D.M. Hix and E.C. Townsend. 1993. Survival and growth of planted northern red oak in northern West Virginia. *Ninth Central Hardwood For. Conf.*, West Lafayette, IN.
- Gribko, L.S. and D.M. Hix. 1993. The effect of small rodents on northern red oak acorns in north-central West Virginia. *Ninth Central Hardwood For. Conf.*, West Lafayette, IN.
- Hix, D.M., D.E. Fosbroke, R.R. Hicks and K.W. Gottschalk. 1991. Development of regeneration following gypsy moth defoliation of Appalachian Plateau and Ridge & Valley hardwood stands. *Eighth Central Hardwood For. Conf.*, State College, PA.
- Spies, T.A., B.V. Barnes, D.M. Hix and S.P. Voice. 1984. Classification and mapping of natural landscape ecosystems of the Sylvania Recreation Area, Upper Michigan. *Ann. Mtg. Ecol. Soc. Amer.* Ft. Collins, CO.

Research Funding

- 2019 – present “Evaluating recent changes in species composition and stand structural dynamics of mature Ohio forest ecosystems”. McIntire-Stennis Cooperative Forestry Research Program. Research Grant Number: OHO00057-MS. Principal Investigator: Hix, D.M.; Co-Principal Investigator: S.N. Matthews.
- 2019 – 2020. “Inventory to inform sustainable management and use of OSU’s forest resources. 2019 Ohio State Energy Partners Award. Co-PIs: Davies, M.; Hix, D.M.; Jackson-Smith, D. B.; Matthews, S.N.; Mehmood, S.R.; Smith, K.; Williams, R.; Zhao, K. \$80,000.
- 2017 – 2021. “Fire science exchange network for the Lake States: The Lake States Fire Science Consortium”. U.S. Department of the Interior, Joint Fire Science Program. PI: Toman, E.L. Co-PI: Hix, D.M. \$449,484.
- 2015 – 2020. A partnership to support collaborative oak management in Ohio's Appalachian forests. U.S. Department of the Agriculture, Forest Service. PI: Matthews, S.N.; Co-PI: Hix, D.M. \$162,048.
- 2015 – 2019 “Change in forest ecosystems of southeastern Ohio: Assessing past trends and predicting future plant diversity and stand structural dynamics”. OARDC Research Enhancement Competitive Grants Program. Principal Investigator: Hix, D.M.; Co-Principal Investigator: Goebel, P.C. \$49,991.
- 2014 – 2019 “Change in forest ecosystems of Ohio: Assessing past trends and predicting future plant diversity and stand structural dynamics”. McIntire-Stennis Cooperative Forestry Research Program. Research Grant Number: OHO00051-MS. Principal Investigator: Hix, D.M.; Co-Principal Investigators: Goebel, P.C., S.N. Matthews.
- 2015-17 “Lake States Fire Consortium renewal – Fire science knowledge exchange for the Lake States region”. U.S. Department of the Interior, Joint Fire Science Program. Principal Investigator: Goebel, P.C.; Co-Principal Investigators: Hix, D.M., Toman, E.L. \$463,905.
- 2013-15 “Renewal - Fire-science network and delivery system for fire-dependent ecosystems of the northern Lake States”. U.S. Department of the Interior. Principal Investigators: Goebel, P.C., D.M. Hix, E.L. Toman, R.S. Wilson. \$299,313.
- 2011-12 “An analysis of the composition, structure, and dynamics of Ohio's eastern hemlock-dominated forests”. OARDC Graduate Research Competitive Grants Program. Co-Principal Investigators: T.D. Macy, D.M. Hix. \$2,924.
- 2010-13 “Developing a fire-science network for the northern Lake States”. U.S. Department of the Interior. Principal Investigators: P.C. Goebel, D.M. Hix, E.L. Toman, R.S. Wilson. \$528,990.
- 2009-14 “Potential implications of hemlock woolly adelgid infestation on plant diversity and stand dynamics of eastern hemlock (*Tsuga canadensis* (L.) Carr) forest ecosystems of Ohio.” McIntire-Stennis Research Project. Co-Investigator with P.C. Goebel.
- 2009-11 “Fuel treatments in mixed-pine forests in the Great Lakes region: A comprehensive guide to planning and implementation”. U.S. Department of the Interior. Principal Investigators: E.L. Toman. Co-I: S.D. Gehrt, P.C. Goebel, D.M. Hix, R.A. Williams, R.S. Wilson. \$128,110.
- 2009-10 “Fire-science network and delivery system for fire-dependent ecosystems of the northern Lake States”. U.S. Department of the Interior. Principal Investigators: P.C. Goebel, D.M. Hix, E.L. Toman, R.S. Wilson. \$18,942.
- 2009-10 “An assessment of forested wetland establishment at Ohio mitigation sites”. OARDC Graduate Research Enhancement Competitive Grant Program. Co-Principal Investigators: J. Reinier, D.M. Hix. \$2,976.
- 2007-08 “Plant biomass and biodiversity toolbox for ecosystem monitoring”. OARDC. Principal Investigators: J. Cardina, D. Doohan, P.C. Goebel, D. Herms, D.M. Hix, C. Hoy. \$27,632.
- 2005 “Application of the QBR Index to the riparian forests of several central Ohio streams”. The Ohio State University, USG Academic Grant Committee. Co-Principal Investigators: S. Colwell, D.M. Hix. \$500.

- 2005-10 "Restoration-based fuel reduction recommendations for mixed-pine forests of Upper Michigan." USDA/USDI Inter-agency Joint Fire Science Program. Co- Principal Investigator with P.C. Goebel. \$259,691.
- 2003-05 "Influence of landscape hierarchies on the structure and function of riparian plant communities in beech-maple forest ecosystems of the Lower Great Lakes." OARDC Research Enhancement Competitive Grants Program Seed Grant. Co-investigator with P.C. Goebel. \$24,669.
- 2003-09 "Ecological characterization of riparian forests of the central hardwoods region: templates for riparian forest restoration." McIntire-Stennis Research Project. Co-investigator with P.C. Goebel.
- 1998-2004 "Stand structural dynamics of old-growth and mature forest ecosystems." McIntire-Stennis Research Project. \$9,150.
- 1996-99 "Dendrology research program." Development gifts from Dr. Garrett S. Dill and others. \$3,494.
- 1994 "Tree regeneration response to prescribed burning in mixed-oak forests in southern Ohio." USDA Forest Service, Ecosystem Management Research Program. Co-investigator with Elaine Kennedy Sutherland. \$7,000.
- 1993-95 "Mechanistic models of regeneration and stand establishment in mixed-oak forests." USDA Forest Service, Global Change Research Program. Co-investigator with Elaine Kennedy Sutherland. \$42,910.
- 1993-94 "Early stand development of mixed-species forests in southeastern Ohio." Mead Corporation. \$8,000.
- 1992-97 "Early successional dynamics of mixed-species forest stands in southeastern Ohio." McIntire-Stennis Research Project. \$8,960.
- 1992-93 "Early development of mixed-species forest stands in southeastern Ohio." The Ohio State University, OARDC Seed Grant Research Project. \$16,666.
- 1991-97 "Development of an ecological classification system for the Wayne National Forest." USDA Forest Service, Northeastern Forest Experiment Station. \$378,250.
- 1991 "Stewardship of the Appalachian hardwood forest." USDA Forest Service, State and Private Forestry Branch. \$70,000.
- 1990-91 "Determining mortality functions for gypsy moth defoliated stands in the Appalachian Plateau and Ridge and Valley Provinces." USDA Forest Service, Gypsy Moth Research and Development Program. Co-investigator with Ray R. Hicks, Jr. \$1,000.
- 1990-91 "Inventory and management of second-growth Appalachian hardwood stands." West Virginia University, Hatch Research Project. Co-investigator with Harry V. Wiant, Jr. \$5,000.
- 1989-91 "Establishment and early development of oaks and other desirable hardwoods in northern West Virginia." West Virginia University, McIntire-Stennis Research Project. \$40,000.

Professional Memberships

Society of American Foresters
 Sigma Xi Scientific Research Society
 Ecological Society of America
 Ohio Academy of Science

Awards and Honors

- 2020 Ohio Society of American Foresters Outstanding Communicator of the Year Award. Received at the Winter Meeting of the Ohio Society of American Foresters, March 10, 2020, Columbus, OH.
- 2018 North American Colleges and Teachers of Agriculture (NACTA) Educator Award. Received at the NACTA Annual Conference held at Iowa State University, June 12-15, 2018.
- 2016 Lorax Award, The Ohio State University, Chadwick Arboretum, Columbus, OH
- 2016 2nd place student poster presentation award. Society of American Foresters National Convention, Madison, WI. Palus, J.D., Andrew, E.E., Goebel, P.C., Hix, D.M., and Matthews, S.N.
- 2016 2nd place poster presentation award. Denman Undergraduate Research Forum in Agriculture/Environmental Science category, Columbus, OH. Denney, R.T., and Hix, D.M.
- 2015 Outstanding Student Mentor, Towers Agricultural Honorary, The Ohio State University.
- 2005 Rodney F. Plimpton Outstanding Teacher Award. The Ohio State University, College of Food, Agricultural, and Environmental Sciences.
- 2005 Semi-finalist for the 2005 Ohio State University Alumni Award for Distinguished University Teaching.
- 2004 Pomerene Teaching Award, The Ohio State University, College of Food, Agricultural, and Environmental Sciences.
- 1995 Outstanding Academic Adviser Award, The Ohio State University, Agriculture and Natural Resources Student Council.
- 1991 Seventh Annual Award for Outstanding Research, Hardwood Research Council.
- 1980 Society of American Foresters Scholastic Achievement Award.
- 1980 James B. Angell Scholar Award, The University of Michigan.
- 1980 Xi Sigma Pi National Forestry Honor Society, Lake States Regional Scholarship.
- 1980 Former President, Upsilon Chapter of Xi Sigma Pi National Forestry Honor Society, The University of Michigan.

Selected Professional Activities

- Outside evaluator for promotion to full professor, Purdue University, West Lafayette – 2017.
- Outside evaluator for promotion to associate professor, University of Missouri, Columbia – 2017.
- Moderator for the Experiential Learning concurrent session at the Teaching and Learning Symposium, The Ohio State University, Columbus – 2017.
- Member appointed by Governor John R. Kasich to the Ohio Forestry Advisory Council, Ohio Department of Natural Resources – since 2015.
- Outside evaluator for promotion to full professor, Iowa State University, Department of Natural Resources Ecology and Management, Ames, IO. Provided a critical review letter based upon my evaluation of the candidate's dossier, selected publications, and other materials.
- Member, City of Hilliard Shade Tree Commission – since 2013.
- Researcher & administrative team member, Lake States Fire Science Consortium, – since 2010.
- Member of both the Eastern Tallgrass Prairie & Oak Savanna Fire Science Consortium and the Fire Science Consortium, Appalachian Fire Managers and Scientist – since 2011.
- Member, Silviculture Instructors' Sub-Group of the Society of American Foresters - since 1989.
- Science Team Member, Appalachian Regional Reforestation Initiative and Ohio's Reforestation Initiative Team – since 2004. Reviewer of Forest Reclamation Advisory publications.
- Member, Vinton Furnace State Experimental Forest - Demonstration and Education Subcommittee, Ohio Department of Natural Resources-Division of Forestry – since 2011.

Co-leader of the steering committee for the 14th Central Hardwoods Forest Conference, sponsored by The Ohio State University, School of Natural Resources and the USDA Forest Service, Northeastern Research Station. This regional meeting was held at OARDC, Wooster, OH, March 2004. I was also a co-editor of the conference proceedings.

Moderator for the Forest Stand Dynamics concurrent session at the 14th Central Hardwood Forest Conference held at the OARDC in Wooster, OH.

Reviewer of manuscripts for: refereed journals (e.g., *Forest Science*, *Canadian Journal of Forest Research*, *Northern Journal of Applied Forestry*, *Forest Ecology and Management*, *Journal of the Torrey Botanical Society*); conference and symposium proceedings; other research papers and reports.

Reviewer of proposals for: competitively funded research projects; new and revised textbooks.

Regional newsletter correspondent for Forest Ecology working group of the Society of American Foresters

Book Reviewer for Choice: Current Reviews for Academic Libraries, American Library Association. 1990 - 1998

Moderator for the Forest Ecology concurrent session at the Ninth Central Hardwood Forest Conference held at West Lafayette, IN.

Programs Committee Co-chair of 1991 Winter Meeting of the Allegheny Chapter of the Society of American Foresters.

Selected Academic Service

- 2019 – present Affiliated Faculty member of The Ohio State University, Sustainability Institute
- 2019 Visited with senior staff (executive vice presidents and director) about mutual interests and possible collaborations, and toured the Davey Tree Expert Company in Kent, OH
- 2019 Visited the Columbus Academy and toured the facilities and properties, while discussing opportunities utilizing their forests for field courses and capstone experiences, Gahanna, OH
- 2018 – Graduate School Representative for Aug. 6 Final Examination of doctoral candidate Kimberly Groshong; Education, Teaching & Learning
- 2018 – 2019 Planning committee for the 2019 Teaching and Learning Symposium, The Ohio State University, Columbus
- 2018 – present Search committee for the forest ecology and restoration faculty position, School of Environment and Natural Resources, co-leader
- 2017 – 2019 CFAES Investigation Committee, Member
- 2017 – present CFAES Assessment Action Team and SENR Assessment Revision, Member
- 2017 Poster judge for five presentations, OARDC Annual Research Conference, Wooster
- 2015 - present Promotion & Tenure Oversight Committee, School of Environment and Natural Resources, Member
- 2016 Graduate faculty representative on the dissertation committee for Christopher Ziehm (Chemistry), including doctoral final examination. The Ohio State University
- 2015 - present CFAES Teaching and Learning Committee, Member
- 2013 – present OSU Tree Advisory Committee; Member & Arborblitz leader; assisted with review of OSU Arboreta
- 2015-17 Library Exhibit Committee – Building Ohio State: From Forest to the Renovation of the Thompson Library, Member
- 2015 Graduate faculty representative on the dissertation committee for Kristina Garvin (English), including doctoral final examination. The Ohio State University
- 2013 – present Coordinator for Forestry Program & Society of American Foresters Reaccreditation Self-Evaluation
- 2014 College of Food, Agricultural and Environmental Sciences Undergraduate Research Forum, Judge

2014	Graduate faculty representative on a dissertation committee for S. H. Chang, including doctoral final examination. The Ohio State University
2014, 2017	Peer-review of teaching for Dr. Stephen Matthews (SENR).
2013 – present	Society of American Foresters Ohio State University Student Chapter, faculty advisor
2013- 16	Governance and Planning Committee for OSU Wetlands, School of Environment and Natural Resources, Member
2013 - 2014	Campus Campaign, School of Environment and Natural Resources, Faculty Representative
2013, 2016	OSU Denman Undergraduate Research Forum, Judge
2012 - 2013	Faculty Search Committee, Restoration Ecology, Member
2011 - 2012	Religion & Ecology Faculty Search Committee, Member
2010 - present	OSU Forests Management & Operations Committee (Waterman Woodlot & Don Scott Forest), Member
2010 - 2016	Graduate Teaching Associate Development & Enhancement Committee, School of Environment and Natural Resources, Member
2010	Faculty Search Committee, Forest Operations & Products Member
2009 - 2016	Academic Affairs Committee, School of Environment and Natural Resources, Member
2009 - 2011	Promotion & Tenure Oversight Committee, School of Environment and Natural Resources, Member
2007	Chair of the Selection Committee for the 2007 Rodney F. Plimpton Outstanding Teaching Award, College of Food, Agricultural, and Environmental Sciences
2006 - 2007	Chair of Natural Resources Graduate Studies Committee, School of Environment and Natural Resources
2006 - 2007	Selection Committee for both 2006 & 2007 Rodney F. Plimpton Outstanding Teaching Awards, College of Food, Agricultural and Environmental Sciences, Member
2005 - 2007	Chair of the College of Food, Agricultural, and Environmental Sciences Library Committee
2004 - 2007	Natural Resources Graduate Studies Committee, Member
2003 - 2007	College of Food, Agricultural, and Environmental Sciences Library Committee, Member
2001 - 2003	OSU Graduate School Fellowship Selection Committee, Member
2000 - 2003	Recognitions & Awards Committee, School of Environment and Natural Resources Member
2000 - 2001	Peer Review of Teaching Committee for Dr. Tom Koontz (SENR), Member
1999 - 2000	Chair of the Forest Restoration Faculty Search Committee, School of Environment and Natural Resources
1999 - 2000	Faculty Search Committee - Forest Restoration, Member
1998 - 1999	Director Search Committee - School of Natural Resources, Member
1998 - 1999	Faculty Search Committee - Applied Forest Ecosystem Analysis and Management, Member
1998	Faculty Search Committee - Applied Forest Biology and Genetics, Member
1998 - 2002	OSU Outdoor Laboratory Operations Committee, Member
1997 - 2000	Academic Affairs Committee, School of Environment and Natural Resources, Member
1996 - 1999	Honors Committee, School of Environment and Natural Resources, Member