Final 4(d) Rule Literature Cited

- Amelon, S., and D. Burhans. 2006. Conservation assessment: *Myotis septentrionalis* (northern long-eared bat) in the eastern United States. Pages 69-82 *in* Conservation assessments for five forest bat species in the eastern United States, Thompson, F. R., III, editor. U.S. Department of Agriculture, Forest Service, North Central Research Station, General Technical Report NC-260. St. Paul, Minnesota. 82 pp.
- American Wind Energy Association. 2015. Available at: <u>http://www.awea.org/Issues/Content.aspx?ItemNumber=4437</u>. Accessed: 03/02/2015.
- Badin, H.A. 2014. Habitat selection and roosting ranges of northern long-eared bats (*Myotis septentrionalis*) in an experimental hardwood forest system. M.S. Thesis. Ball State University. 90 pp.
- Barbour, R. and W. Davis. 1969. Bats of America. The University Press of Kentucky, Lexington, KY.
- Barclay, R.M.R. and A. Kurta. 2007. Ecology and behavior of bats roosting in tree cavities and under bark. Pp. 17-59 *in* M.J. Lacki, J.P. Hayes, and A. Kurta (eds.) Bats in Forests: Conservation and Management. Johns Hopkins University Press, Baltimore MD.
- Bilecki, L.C. 2003. Bat Hibernacula in the Karst Landscape of Central Manitoba: Protecting Critical Wildlife Habitat while Managing for Resource Development. M.S. Thesis. University of Manitoba. 55 pp.
- Boggess, E., N. Wiley, P. Church, G. Geissler. 2014. Comment letter on October 2013 Proposed Listing of the Northern Long-Eared Bat (*Myotis septentrionalis*) as Endangered. (dated 11/05/2014).
- Boyles, J.G. and D.P. Aubrey. 2006. Managing forests with prescribed fire: implications for a cavity-dwelling bat species. Forest Ecology and Management 222(1):108-115.
- Boyles, J.G., and V. Brack, Jr. 2009. Modeling survival rates of hibernating mammals with individual-based models of energy expenditure. Journal of Mammalogy 90(1):9-16.
- Boyles, J. G., P.M. Cryan, G.F. McCracken, and T.H. Kunz. 2011. Economic importance of bats in agriculture. Science 332(6025):41-42.
- Brack V., Jr. 2007. Temperatures and locations used by hibernating bats, including *Myotis sodalis* (Indiana bat), in a limestone mine: implications for conservation and management. Environmental Management 40(5):739-746.

Caceres, M.C. and R.M.R. Barclay. 2000. Myotis septentrionalis. Mammalian Species 634:1-4.

- Caire, W., R.K. LaVal, M.L. LaVal, and R. Clawson. 1979. Notes on the ecology of *Myotis keenii* (Chiroptera, Vespertilionidae) in eastern Missouri. The American Midland Naturalist 404-407.
- Callahan, E.V., R.D. Drobney and R.L. Clawson. 1997. Selection of summer roosting sites by Indiana bats (*Myotis sodalis*) in Missouri. Journal of Mammalogy 78:818-825.
- Carter, T.C. and G.A. Feldhamer. 2005. Roost tree use by maternity colonies of Indiana bats and northern long-eared bats in southern Illinois. Forest Ecology and Management 219:259-268.
- Carter, T.C., W.M. Ford, and M.A. Menzel. 2000. Fire and bats in the Southeast and Mid-Atlantic: more questions than answers? In The Role of Fire in Nongame Wildlife Management and Community Restoration: Traditional Uses and New Directions Proceedings of a Special Workshop, pp. 139-143.
- Caviness, M. 2003. Effects of prescribed fire on cave environment and bat inhabitants. Bat Research News 44(4):140.
- Chen, J., J.F. Franklin, and T.A. Spies. 1995. Growing-season microclimatic gradients from clearcut edges into old-growth douglas-fir forests. Ecological Applications 5(1):74-86.
- Colborn, T., F.S. vom Saal, and A.M. Soto. 1993. Developmental effects of endocrine-disrupting chemicals in wildlife and humans. Environmental Health Perspectives 101(5): 378-384.
- Cope, J.B., and S.R. Humphrey. 1972. Reproduction of the bats *Myotis Keenii* and *Pipistrellus subflavus* in Indiana. Bat Research News 13:9-10.
- Cryan, P.M., M.A. Bogan, and G.M. Yanega. 2001. Roosting habits of four bat species in the Black Hills of South Dakota. Acta Chiropterologica 3(1):43-52.
- Davis, R. 1970. Carrying of Young by Flying Female North American Bats. The American Midland Naturalist 83(1):186-196.
- Davis, W.H., and H.B. Hitchcock. 1965. Biology and Migration of the Bat, *Myotis lucifugus*, in New England. Journal of Mammalogy 46(2):296-313.
- Davis, M.J., A.D. Vanderberg, T.A. Chatwin, and M.H. Mather. 1999. Bat usage of the Weymer Creek cave systems on Northern Vancouver Island. Proceedings of a Conference on the Biology and Management of Species and Habitats at Risk, Kamloops, B.C., 15-19 February 1999:305-312.
- Dickinson, M.B., M.J. Lacki, and D.R. Cox. 2009. Fire and the Endangered Indiana Bat. Pp. 51-75 *in* T.F. Hutchinson (ed.) Proceedings of the Third Fire in Eastern Oak Forests
 Conference, Carbondale, IL. General Technical Report NRS-P-46. Newtown Square, PA: U. S. Department of Agriculture, Forest Service, Northern Research Station.

- Dodd, L.E., M.J. Lacki, E.R. Britzke, D.A. Buehler, P.D. Keyser, J.L. Larkin, A.D. Rodewald, T. Bently Wigley, P.B. Wood, and L.K. Rieske. 2012. Forest structure affects trophic linkages: how silvicultural disturbance impacts bats and their insect prey. Forest Ecology and Management 267:262-270.
- Easterla, D.A. 1968. Parturition of Keen's Myotis in Southwestern Missouri. Journal of Mammalogy, 49(4):770.
- Fenton, M.B. 1969. Summer activity of *Myotis lucifugus* (Chiroptera: Vespertilionidae) at hibernacula in Ontario and Quebec. Canadian Journal of Zoology 47:597–602.
- Ford, W.M., K.R. Russell, and C.E. Moorman (eds.). 2002. Proceedings: the role of fire for nongame wildlife management and community restoration: traditional uses and new directions. Nashville, TN. Gen. Tech. Rep. NE-288. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northeastern Research Station. 145 pp.
- Foster, R.W. and A. Kurta. 1999. Roosting ecology of the northern bat (*Myotis septentonalis*) and comparisons with the endangered Indiana bat (*Myotis sodalis*). Journal of Mammalogy 80:659-672.
- Francl, K.E., W.M. Ford, D.W. Sparks, and V. Brack, Jr. 2012. Capture and reproductive trends in summer bat communities in West Virginia: assessing the impact of white-nose syndrome. Journal of Fish and Wildlife Management 3(1):33-42.
- Garroway, C.J. and H.G. Broders. 2007. Nonrandom association patterns at northern long-eared bat maternity roosts. Canadian Journal of Zoology 85:956-964.
- Garroway, C.J., and H.G. Broders. 2008. Day roost characteristics of northern long-eared bats (*Myotis septentrionalis*) in relation to female reproductive status. Ecoscience 15(1):89-93.
- Geluso, K.N., J.S. Altenbach, and D.E. Wilson. 1976. Bat mortality: pesticide poisoning and migratory stress. Science 194(4261):184-186.
- Griensein, L. 2011. Hibernacula microclimate and white-nose syndrome susceptibility in the little brown myotis (*Myotis lucifugus*). M.S. Thesis. Bucknell University, PA. 100 pp.
- Griffin, D.R. 1940. Notes on the life-histories of New England cave bats. Journal of Mammalogy 21:181–187.
- Hall, J.S. and F.J. Brenner. 1968. Summer netting of bats at a cave in Pennsylvania. Journal of Mammalogy 49(4):779-781.
- Hein, C.D., J. Gruver, and E.B. Arnett. 2013. Relating pre-construction bat activity and postconstruction bat fatality to predict risk at wind energy facilities: A synthesis. Report to the National Renewable Energy Laboratory. Bat Conservation International, Austin, TX. 21 pp.

- Henderson, L.E. and H.G. Broders. 2008. Movements and resource selection of the northern long-eared myotis (*Myotis septentrionalis*) in a forest-agriculture landscape. Journal of Mammalogy, 89(4):952-963.
- Henderson, L.E., Farrow, L.J., and H.G. Broders. 2008. Intra-specific effects of forest loss on the distribution of the forest-dependent northern long-eared bat (*Myotis septentrionalis*). Biological Conservation 141(7):1819-1828.
- Humphrey, S.R., A. Richter, and J.B. Cope. 1977. Summer habitat and ecology of the endangered Indiana bat, *Myotis sodalis*. Journal of Mammalogy 58(3):334-346.
- Huso, M.M.P, and D. Dalthorp. 2014. A comment on "Bats Killed in Larger Numbers and United States Wind Energy Facilities." Bioscience 64:546-547.
- Ingersoll, T.E., B.J. Sewall, and S.K. Amelon. 2013. Improved Analysis of Long-Term Monitoring Data Demonstrates Marked Regional Declines of Bat Populations in the Eastern United States. PLoS ONE 8(6):e65907.
- Jackson, J.L. 2004. Effects of Wildlife Stand Improvement and Prescribed Burning on Bat and Insect Communities: Buffalo Ranger District, Ozark- St. Francis National Forest, Arkansas. M.S. Thesis. Arkansas State University. 152 pp.
- Johnson, J.B., J.W. Edwards, W.M. Ford, and J.E. Gates. 2009. Roost tree selection by northern myotis (*Myotis septentrionalis*) maternity colonies following prescribed fire in a Central Appalachian Mountains hardwood forest. Forest Ecology and Management 258(3):233-242.
- Johnson, J.B., W.M. Ford, J.L. Rodrigue, J.W. Edwards, and C.M. Johnson. 2010. Roost selection by male Indiana Myotis following forest fires in central Appalachian hardwoods forests. Journal of Fish and Wildlife Management 1(2):111-121.
- Kannan, K., S.H. Yun, R.J. Rudd and M. Behr. 2010. High concentrations of persistent organic pollutants including PCBs, DDT, PBDEs and PFOS in little brown bats with white-nose syndrome in New York, USA. Chemosphere 80(6):613-618.
- Köhler, H.R. and R. Triebskorn. 2013. Wildlife ecotoxicology of pesticides: can we track effects to the population level and beyond? Science 341(6147):759-765.
- Kokurewicz, T. 2004. Sex and age related habitat selection and mass dynamics of Daubenton's bats *Myotis daubentonii* (Kuhl, 1817) hibernating in natural conditions. Acta Chiropterologica 6:121-144.
- Krochmal, A.R. and D.W. Sparks. 2007. Timing of birth and estimation of age of juvenile *Myotis* septentrionalis and *Myotis lucifugus* in west-central Indiana. Journal of Mammalogy 88(3):649-656.
- Kunz, T.H. 1971. Reproduction of Some Vespertilionid Bats in Central Iowa. American Midland Naturalist, 86(2):477-486.

Kunz, T.H. 1982. Roosting Ecology Ecology of Bats. New York: Plenum Press.

- Kurta, A. 1982. A Review of Michigan bats: seasonal and geographic distribution. Michigan Academician 3(14):294-312.
- Kurta, A. and S.M. Smith. 2014. Hibernating Bats and Abandoned Mines of the Upper Peninsula of Michigan. Unpublished Report. Eastern Michigan University. 35 pp.
- Kurta A., J. Caryl, and T. Lipps. 1997. Bats and Tippy Dam: species composition, seasonal use, and environmental parameters. Michigan Academician 29:473-490.
- Lacki, M.J. and J.H. Schwierjohann. 2001. Day-roost characteristics of northern bats in mixed mesophytic forest. Journal of Wildlife Management 65:482-488.
- Lacki, M.J., D.R. Cox, L. E. Dodd, and M.B. Dickinson. 2009. Response of northern bats (*Myotis septentrionalis*) to prescribed fires in eastern Kentucky forests. Journal of Mammalogy 90(5):1165-1175.
- Lereculeur, A.E. 2013. Summer roosting ecology of the northern long-eared bat (*Myotis septentrionalis*) at Catoosa Wildlife Management Area. M.S. Thesis. Tennessee Technological University. 76 pp.
- Loeb, S.C. and J.M. O'Keefe. 2006. Habitat use by forest bats in South Carolina in relation to local, stand, and landscape characteristics. Journal of Wildlife Management 70(5):1210-1218.
- Loeb, S.C. and J.M. O'Keefe. 2011. Bats and Gaps: The Role of Early Successional Patches in the Roosting and Foraging Ecology of Bats. Chapter 10 pp. 167-189 *in* Sustaining Young Forest Communities, C. Greenberg, B. Collins, and F. Thompson III, editors. Springer-Verlag New York, 304 pp.
- Lowe, A.J. 2012. Swarming behaviour and fall roost-use of little brown (*Myotis lucifugus*) and northern long-eared bats (*Myotis septentrionalis*) in Nova Scotia, Canada. M.S. Thesis, St. Mary's University, Halifax, Nova Scotia. 88 pp.
- Matlack, G. R. 1993. Microenvironment variation within and among forest edge sites in the eastern United States. Biological Conservation 66:185-194.
- Maine, J.J. and J.G. Boyles. 2015. Bats initiate vital agroecological interactions in corn. Proceedings of the National Academy of Sciences 112(40):12438-12443.
- Menzel, M.A., T.C. Carter, B.R. Chapman, and J. Laerm. 1998. Quantitative comparison of tree roosts used by red bats (*Lasiurus borealis*) and Seminole bats (*L. seminolus*). Canadian Journal of Zoology 76: 630-634.

- Menzel, M.A., J.M. Menzel, T.C. Carter, W.M. Ford, and J.W. Edwards. 2001. Review of the forest habitat relationships of the Indiana bat (Myotis sodalis). General Technical Report NE-284. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northeastern Research Station. 21 pp.
- Menzel, M.A., S.F. Owen, W.M. Ford, J.W. Edwards, P.B. Wood, B.R. Chapman, and K.V. Miller. 2002. Roost tree selection by northern long-eared bat (*Myotis septentrionalis*) maternity colonies in an industrial forest of the central Appalachian mountains. Forest Ecology and Management 155:107-114.
- Mumford R.E. and J.B. Cope. 1964. Distribution and status of the chiroptera of Indiana. American Midland Naturalist 72(2):473-489.
- O'Keefe, J.M. 2009. Roosting and Foraging Ecology of Forest Bats in the Southern Appalachian Mountains. Ph.D. Dissertation. Clemson University, SC. 133 pp.
- Olson, C.R. 2011. The roosting behaviour of little brown bats (*Myotis lucifugus*) and northern long-eared bats (*Myotis septentrionalis*) in the boreal forest of northern Alberta. M.S. Thesis. University of Calgary. 135 p.
- O'Shea, T.J., and D.R. Clark, Jr. 2002. An overview of contaminants and bats, with special reference to insecticides and the Indiana bat. The Indiana bat: biology and management of an endangered species. Bat Conservation International, Austin, TX 237-253.
- O'Shea, T.J. and J.J. Johnson. 2009. Environmental contaminants and bats: Investigating exposure and effects. Pp. 500-528 *in:* T.H. Kunz and S. Parsons (eds.) Ecological and Behavioral Methods for the Study of Bats. Johns Hopkins University Press, Baltimore.
- Owen, S.F., M.A. Menzel, W.M. Ford, J.W. Edwards, B.R. Chapman, K.V. Miller, and P.B. Wood. 2002. Roost tree selection by maternal colonies of northern long-eared myotis in an intensively managed forest. Gen. Tech. Rep. NE-292. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northeastern Research Station. 6 pp.
- Owen, S., M.A. Menzel, M.W. Ford, B.R. Chapman, K.V. Miller, J. Edwards, and P. Wood. 2003. Home range size and habitat use by northern Myotis (*Myotis septentrionalis*). The American Midland Naturalist 150:352-359.
- Parsons, K.N.,G. Jones, I. Davidson-Watts, and F. Greenaway. 2003. Swarming of bats at underground sites in Britain—implications for conservation. Biological Conservation 111(1):63-70.
- Patriquin, K.J. and R.M.R. Barclay. 2003. Foraging by bats in cleared, thinned and unharvested boreal forest. Journal of Applied Ecology 40(4):646-657.
- Pearson, E.W. 1962. Bats hibernating in silica mines in southern Illinois. Journal of Mammalogy 43:27-33.

- Perry, R.W. and R.E. Thill. 2007. Roost selection by male and female northern long-eared bats in a pine-dominated landscape. Forest Ecology and Management 247(1):220-226.
- Perry, R.W., R.E. Thill, and D.M. Leslie, Jr. 2007. Selection of roosting habitat by forest bats in a diverse forested landscape. Forest Ecology and Management 238(1):156-166.
- Quarles, W. 2013. Bats, Pesticides and White-Nose Syndrome. The IPM Practitioner 33(9-10):2-6.
- Raesly, R.L., and J. E. Gates. Winter habitat selection by north temperate cave bats. American Midland Naturalist (1987): 15-31.
- Randall, J. and H.G. Broders. 2014. Identification and characterization of swarming sites used by bats in Nova Scotia, Canada. Acta Chiropterologica 16(1):109-116.
- Richter, A.R., S.R. Humphrey, J.B. Cope, V. Brack. 1993. Modified cave entrances: thermal effect on body mass and resulting decline of endangered Indiana bats (*Myotis sodalis*). Conservation Biology, **7**(2):407-415.
- Sasse, D.B. 1995. Summer roosting ecology of cavity dwelling bats in the White Mountain National Forest. M.S. Thesis. University of New Hampshire. 65 pp.
- Sasse, D.B. and P.J. Pekins. 1996. Summer roosting ecology of northern long-eared bats (*Myotis septentrionalis*) in the White Mountain National Forest. Pp. 91-101 *in* R.M.R. Barclay and R.M. Brigham (eds.) Bats and Forests Symposium, Research Branch. British Columbia Ministry of Forests, Victoria, BC.
- Secord, A.L., K.A. Patnode, C. Carter, E. Redman, D.J. Gefell, A.R. Major and D.W. Sparks. 2015. Contaminants of Emerging Concern in Bats from the Northeastern United States. Archives of environmental contamination and toxicology 69(4):411-421.
- Silvis, A., W.M. Ford, E.R. Britzke, N.R. Beane, and J.B. Johnson. 2012. Forest Succession and Maternity Day Roost Selection by *Myotis septentrionalis* in a Mesophytic Hardwood Forest. International Journal of Forestry Research. doi:10.1155/2012/148106
- Silvis, A., W.M. Ford, and E.R. Britzke. 2015. Effects of Hierarchical Roost Removal on Northern Long-Eared Bat (Myotis septentrionalis) Maternity Colonies. PLoS ONE 10(1):e0116356.
- Spanjer, G. R., and M. B. Fenton. 2005. Behavioral responses of bats to gates at caves and mines. Wildlife Society Bulletin, **33**:1101–1112.
- Sparks, D.W. 2008. Escape Behavior of Northern Long-Eared Bats (*Myotis septentrionalis*) Following Diurnal Disturbance. 2008 Proceedings of the Indiana Academy of Science 117(2):203-209.

- Swier, V.J. 2003. Distribution, roost site selection and food habits of bats in eastern South Dakota. M.S. Thesis. South Dakota State University. 105 pp.
- Thomas, D.W. 1995. Hibernating bats are sensitive to nontactile human disturbance. Journal of Mammalogy 76(3):940-946.
- Timpone, J.C., J.G. Boyles, K.L. Murray, D.P. Aubrey, and L.W. Robbins. 2010. Overlap in roosting habits of Indiana bats (*Myotis sodalis*) and northern bats (*Myotis septentrionalis*). The American Midland Naturalist 163(1):115-123.
- Tuttle, M.D. and D.E. Stevenson. 1978. Variation in the cave en- vironment and its biological implications. Pp. 108-121 in R. Zuber, J. Chester, S. Gilbert, and D. Rhoades (eds). National cave management symp. proc., 1977. Adobe Press, Albuquerque, N.M
- U.S. Department of Agriculture, Forest Service (USFS). 2012. 2010 Resources Planning Act Assessment. Gen. Tech. Rep. WO-87. Washington, D.C., 198pp.
- U.S. Department of Energy. 2008. 20% Wind energy by 2030: increasing wind energy's contribution to U.S. electricity supply. U.S. Department of Energy, Office of Scientific and Technical Information, Oak Ridge, Tennessee. Available at: http://www.nrel.gov/docs/fy08osti/41869.pdf, Accessed 02/01/2015.
- U.S. Fish and Wildlife Service (Service). 2007. Indiana Bat (*Myotis sodalis*) Draft Recovery Plan: First Revision. U.S. Fish and Wildlife Service, Fort Snelling, Minnesota, 258 pp.
- Whitaker J.O., Jr. and L.J. Rissler. 1992a. Seasonal activity of bats at Copperhead Cave. Proceedings of the Indiana Academy of Science 101(1-2):127-134.
- Whitaker J.O., Jr. and L.J. Rissler. 1992b. Winter activity of bats at a mine entrance in Vermillion County, Indiana. The American Midland Naturalist 52-59.
- Whitaker, J.O., and W.J. Hamilton. 1998. Order Chiroptera: Bats. Chapter 3: pp.89-102 *in* Mammals of the eastern United States, Third Edition, Comstock Publishing Associates, a Division of Cornell University Press, Ithaca, New York, 608pp.
- Whitaker, J.O., and R.E. Mumford. 2009. Northern Myotis. pp. 207-214. *In* Mammals of Indiana. Indiana University Press, Bloomington, Indiana. 688pp.
- Yates, M.D. and R.M. Muzika. 2006. Effect of forest structure and fragmentation on site occupancy of bat species in Missouri Ozark forests. Journal of Wildlife Management 70(5):1238-1248.
- Yates, D.E., E.M. Adams, S.E. Angelo, D.C. Evers, J. Schmerfeld, M.S. Moore, T.H. Kunz, T. Divoll, S.T. Edmonds, C. Perkins, R. Taylor, and N.J. O'Driscoll. 2014. Mercury in bats from the northeastern United States. Ecotoxicology 23(1):45-55.

Documented Correspondence, Personal Communications, and Unpublished Data

- Bohrman, J. A. and D. Fecske. 2012. Unpublished data from Great Swamp National Wildlife Refuge, NJ (received June 2014).
- Kath, J. 2013. Email Communication sent by J. Kath, Endangered Species Manager, Illinois Department of Natural Resources to J. Utrup, Fish and Wildlife Biologist, U.S. Fish and Wildlife Service Green Bay, Wisconsin Field Office (dated 04/09/2013).
- U.S. Fish and Wildlife Service (Service). 2012. Compiled unpublished data.
- U.S. Fish and Wildlife Service (Service). 2015. Compiled unpublished data.