**Powdermill Nature Reserve Bibliography**

1. Allen, M. C., J. Sheehan, Jr., T. L. Master, and R. S Mulvihill. 2009. Responses of Acadian Flycatchers (*Empidonax virescens*) to hemlock woolly adelgid (*Adeleges tsucae*) infestation in Appalachian riparian forests. The Auk 126:543-553.
2. Andena, S.R., Aragao, M., and Wenzel, J.W. 2016. As vespas sociais encontradas no Semiárido brasileiro. In book: Conhecendo Os Artrópodes Do Semiárido. Eds. F. Bravo and A.R. Calor. Métis Produção Editorial.
3. Angulo, E., Luque, G.M., Gregory, S.D., Wenzel, J.W., Bessa-Gomes, C. Berek, L., and Courchamp, F. 2018. Allee effects in social species. Journal of Animal Ecology 87: 47– 58.
4. Arango, A., Pinto-Ledezma, J., Rojas-Soto, O., Lindsay, A.M., Mendenhall, C.D. and Villalobos, F., 2022. Hand-Wing Index as a surrogate for dispersal ability: the case of the Emberizoidea (Aves: Passeriformes) radiation. Biological Journal of the Linnean Society.
5. Aziz, N., Holmes, M.A., Bennion, L.D., Reeb, R.A. and Kuebbing, S.E. 2023. Hiking trailheads, but not trailsides, associated with higher cover of non-native plants. Appl Veg Sci. e12716. https://doi.org/10.1111/avsc.12716
6. Bain, D.J., DaCanal, T.R., Iannacchione, A.T., Kautz, A.R., Shirey, P.D., Tonsor, S.J., Copeland, M.A., Deglmann, J., Hill, M.J., Kandanarachchi, D.N., Trout, S.D., Winn, R.M. 2019. The Effects of Subsidence Resulting from Underground Bituminous Coal Mining in Pennsylvania, 2013-2018. Act 54 5-year report. Submitted to the Pennsylvania Department of Environmental Protection. https://files.dep.state.pa.us/Mining/BureauOfMiningPrograms/BMPPortalFiles/Act%2054/Act%2054%20Report%20-%205th%20(2013-2018).pdf
7. Bakermans, M. H., A. D. Rodewald, and A. C. Vitz. 2012. Influence of forest structure on density and nest success of mature-forest birds in a managed landscape. The Journal of Wildlife Management 76: 1225-1234.
8. Barry, J. J. 1971. Differential fall migration. Eastern Bird Banding Association News 34: 55-66.
9. Brauning, D. W. 1992. Atlas of Breeding Birds in Pennsylvania. University of Pittsburgh Press, Pittsburgh, PA. 528 pp. [Contains 23 species accounts authored by R. C. Leberman and 20 accounts by R. S. Mulvihill].
10. Brauning, D. W., M. C. Brittingham, D. A. Gross, R. C. Leberman, T. L. Master, and R. S. Mulvihill. 1994. Pennsylvania breeding birds of special concern: A listing rationale and status update. Journal of the Pennsylvania Academy of Science 68:3-28.
11. Calinger, K., Calhoon, E., Chang, H-c., Whitacre, J., Wenzel, J., Comita, L., and Queenborough, S. 2015. Historic Mining and Agriculture as Indicators of Occurrence and Abundance of Widespread Invasive Plant Species. PLoS ONE 10(6): e0128161. doi:10.1371/journal.pone.0128161
12. Carr, J., and Slyder, J. 2018. Individual tree segmentation from a leaf-off photogrammetric point cloud. International Journal of Remote Sensing 39: 1-16.
13. Chalfant, B.A. and Corrigan, C.C. 2019. Governing Unconventional Oil and Gas Extraction: The Case of Pennsylvania. Review of Policy Research 36:75-98.
14. Chandler, C.R. and Mulvihill, R.S. 1988. The use of wing shape indices: An evaluation. Ornis Scandinavica (Scandinavian Journal of Ornithology) 19(3):212-216.
15. Chandler, C.R. and Mulvihill, R.S. 1990. Wing-shape variation and differential timing of migration in dark-eyed juncos. The Condor 92(1):54-61.
16. Chandler, C. R., and Mulvihill, R. S. 1990. Interpreting differential timing of capture of sex classes during spring migration. Journal of Field Ornithology 61:85-89.
17. Chandler, C.R. and Mulvihill, R.S. 1992. Effects of age, sex, and fat level on wing loading in dark-eyed juncos. The Auk 109(2):235-241.
18. Christin, Sylvain, Éric Hervet, Paul Smith, et al. 2023. Deep learning for passive acoustic monitoring: how to study changing phenology in remote areas. Authorea. November 10, 2023.

DOI: 10.22541/au.169963215.50290219/v1

1. Chronister, L.M., Rhinehart, T.A. and Kitzes, J. 2023. When birds sing at the same pitch, they avoid singing at the same time. Ibis. https://doi.org/10.1111/ibi.13192
2. Clem, S., Wingert, B., Kautz, A.R., Roe, A., Mulford, T., Bettman, D., Conrow, R., Dahlem, G., Flores, H., Foote, L., Gisondi, S., Hogue, J., Matsunaga, J., Mendez-Soto, M., Mochizuki, K., Ortega, K., Rawson, W., Xuan, J., Brown, B. 2022. Checklist of true flies (Diptera) from San Luis Obispo County, California, U.S.A.: an outcome of the Fly School II taxonomic workshop. The Pan-Pacific Entomologist 98:270-299.
3. Clench, H.K. 1957. The "Pumping" of Certain Moths at Water. Lepidoptera News 11:18-21.
4. Clench, H.K. 1962. *Panthiades m-album* (Lycaenidae): Remarks on its early stages and on its occurrence in Pennsylvania. Journal of the Lepidopterists’ Society 15:226-232.
5. Clench, H.K. 1967. Temperal Dissociation and Population Regulation in Certain Hesperiine Butterflies. Ecology 48(6):1000–1006.
6. Clench, M.H. 1968. A remarkable recovery of a banded Lincoln’s Sparrow. Eastern Bird Banding Association News 31(6):243-245.
7. Clench, M.H. 1969. Additional observations on the fall migration of adult and immature Least Flycatchers. Bird-Banding 40:238-243.
8. Clench, M.H. 1973. The fall migration route of Kirtland’s Warbler. The Wilson Bulletin 85:417-428.
9. Clench, M.H., and Leberman, R.C. 1978. Weights of 151 species of Pennsylvania birds analyzed by month, age, and sex. Bulletin of the Carnegie Museum Natural History No. 5. 87 pp.
10. Covino, K.M., Horton, K.G., and Morris, S.R. 2020. Seasonally specific changes in migration phenology across 50 years in the Black-throated Blue Warbler. The Auk 137(2): ukz080.
11. Covino, K.M. 2020. Spring migration of blackpoll warblers across North America. Avian Conservation and Ecology 15(1):17.
12. Crespin, L., J. F. Merritt, and M. Lima. 2003. Relaciones entre la supervivencia y la densidad: un analisis de datos de captura-marcaje-recaptura a largo plazo con dos especies de *Peromyscus* (Rodentia). Abstracts of the XLVI annual meeting of the Chilean Society of Biology published in Biological Research 36 (3/4): ppR38.
13. Curtze, A., Carlo, T.A., and Wenzel, J. 2018. The Effects of a Tornado Disturbance and a Salvaged Timber Extraction on the Seed-Rain and Recruitment Community of an Eastern Temperate Deciduous Forest. Northeastern Naturalist 25:627 - 645.
14. Dahlin, C.R., Hughes, D.F., Meshaka Jr, W.E., Coleman, C. and Henning, J.D. 2016. Wild snakes harbor West Nile virus. One Health 2:136-138.
15. Damoulas, T., Henry, S., Farnsworth, A., Lanzone, M., and Gomes, C. 2010. Bayesian Classification of Flight Calls with a Novel Dynamic Time Warping Kernel. Proceedings - 9th International Conference on Machine Learning and Applications, ICMLA 2010: 424-429.
16. DeGroote, L. W., Hingst‐Zaher, E., Moreira‐Lima, L., Whitacre, J. V., Slyder, J. B., and Wenzel, J. W. 2020. Citizen science data reveals the cryptic migration of the Common Potoo *Nyctibius griseus* in Brazil. Ibis 163(2): 380-389.
17. Deiner, K., Lemmon, A.R., Mack, A.L., Fleischer, R.C., and Dumbacher, J.P. 2011. A Passerine Bird's Evolution Corroborates the Geologic History of the Island of New Guinea. PLOS ONE 6(5): e19479.
18. Dieterich, M., 2015. Physicochemical Effects of Synthetic Hydraulic Fracturing Fluid on Core Samples of the Middle Devonian Marcellus Shale and Underlying Huntersville Chert, Greene County, Pennsylvania, USA (Doctoral dissertation, University of Pittsburgh).
19. Deleon, R. L., E. E. Deleon, and E. R. Rising. 2011. Influence of climate change on avian migrants first arrival dates. The Condor 113:915-923.
20. Denham, A., Willis, M., Zavez, A., and Hill, E. 2019. Unconventional natural gas development and hospitalizations: evidence from Pennsylvania, United States, 2003-2014. Public health 168:17–25.
21. Dennis, L.E., Richardson, S.J., Miles, N., Woda, J., Brantley, S.L. and Davis, K.J., 2022. Measurements of Atmospheric Methane Emissions from Stray Gas Migration: A Case Study from the Marcellus Shale. ACS Earth and Space Chemistry.
22. DePasquale, C., Li, X., Harold, M., Mueller, S., McLaren, S. and Mahan, C. 2020. Selection for increased cranial capacity in small mammals during a century of urbanization. Journal of Mammalogy 101(6):1706-1710.
23. Duffus, A., Hughes, D., Kautz, A., Allain, S. and Meshaka, W. 2022. Repeated sampling of wild individuals reveals *Ophidiomyces ophidiicola* infection dynamics in a Pennsylvania snake assemblage. Journal of wildlife diseases. 10.7589/JWD-D-21-00116.
24. Dunn, P.O., Ahmed, I., Armstrong, E., Barlow, N., Barnard, M.A., Bélisle, M., Benson, T.J., Berzins, L.L., Boynton, C.K., Brown, T.A., Cady, M., Cameron, K., Chen, X., Clark, R.G., Clotfelter, E.D., Cromwell, K., Dawson, R.D., Denton, E., Forbes, A., Fowler, K., Fraser, K.C., Gandhi, K.J.K., Garant, D., Hiebert, M., Houchen, C., Houtz, J., Imlay, T.L., Inouye, B.D., Inouye, D.W., Jackson, M., Jacobson, A.P., Jayd, K., Juteau, C., Kautz, A., Killian, C., Kinnear, E., Komatsu, K.J., Larsen, K., Laughlin, A., Levesque-Beaudin, V., Leys, R., Long, E., Lougheed, S.C., Mackenzie, S., Marangelo, J., Miller, C., Molano-Flores, B., Morrissey, C.A., Nicholls, E., Orlofske, J.M., Pearse, I.S., Pelletier, F., Pitt, A.L., Poston, J.P., Racke, D.M., Randall, J.A., Richardson, M.L., Rooney, O., Ruegg, A.R., Rush, S., Ryan, S., Sadowski, M., Schoepf, I., Schulz, L., Shea, B., Sheehan, T.N., Siefferman, L., Sikes, D., Stanback, M., Styrsky, J.D., Taff, C.C., Uehling, J.J., Uvino, K., Wassmer, T., Weglarz, K., Weinberger, M., Wenzel, J. and Whittingham, L.A. 2023. Extensive regional variation in the phenology of insects and their response to temperature across North America. Ecology e4036. https://doi.org/10.1002/ecy.4036
25. Durrant, K.L., Reader, T., and Symonds, M.R.E. 2020. Pre- and post-copulatory traits working in concert: sexual dichromatism in passerines is associated with sperm morphology. Biology Letters 16(1):20190568.
26. Eckerlin, R.P., Paul, K. And Carpenter, S. 2008. New Records of Fleas (Siphonaptera) from Pennsylvania. Journal of the Pennsylvania Academy of Science 82(2/3):74-78.
27. Elkinton J. S., A. M. Liebhold, and R. M. Muzika. 2004. Effects of alternative prey on predation by small mammals on gypsy moth pupae. Population Ecology 46:171-178.
28. Farber, H. Who sez I am not old enough? Eastern Bird Banding Association News 36: 26-29.
29. Farnsworth, G. L., D. R. Diefenbach, R. S. Mulvihill, M. J. Lanzone, and D. W. Brauning. 2006. Estimating breeding bird abundances with point counts from the “Second Pennsylvania Breeding Bird Atlas.” *In* Paper presented at the IV North American Ornithological Conference, Vera-crus, Mexico.
30. Feldehamer, G.A., Drickamer, L.C., Vessey, S.H. and Merritt, J.F. 1998. Mammalogy: Adaptation, Diversity, and Ecology. First Edition. The McGraw-Hill Companies, Boston.
31. Feldehamer, G.A., Drickamer, L.C., Vessey, S.H. and Merritt, J.F. 2003. Mammalogy: Adaptation, Diversity and Ecology. Second Edition. The McGraw-Hill Companies, Boston.
32. Fellman, A., Peles, J.D. and Merritt, J.F. 2003. Lack of Allozyme Variation Within Seven Populations of the Crayfish *Cambarus carinirostris*. Journal of the Pennsylvania Academy of Science 76(2/3):80-82.
33. Fichtel, C.C. 1978. A *Salmonella* outbreak in wild songbirds. North American Bird Bander 3(4):146-148.
34. Finnegan, Sue. 2011. "Field Notes: Discovery of a Brood Patch on an Adult Male American Goldfinch (*Carduelis tristis*)," Bird Observer: Vol. 39 : Iss. 1 , Article 6. Available at: https://digitalcommons.usf.edu/bird\_observer/vol39/iss1/6
35. Fisk, E.J. 1973. Eye Line on Swamp Sparrows; Female Cowbirds. Eastern Bird Banding Association News Supplement 36:4.
36. Fontaine, S. S. 2022. Multidirectional interactions between amphibian hosts, the gut microbiome, and environmental temperature. PhD dissertation submitted to the University of Pittsburgh. http://d-scholarship.pitt.edu/43690/3/Fontaine%20-%20PhD%20-%20ETD%20-%20Final.pdf
37. Ford, W.M., McCay, T.S., Menzel, M.A., Webster, W.D., Greenberg, C.H., Pagels, J.F. and Merritt, J.F. 2005. Influence of elevation and forest type on community assemblage and species distribution of shrews in the central and southern Appalachian Mountains. In: Advances in the biology of shrews II. Merritt, Joseph F.; Churchfield, Sara; Hutterer, Rainer; Sheftel, Boris I., eds. International Society of Shrew Biologists. 303-315.
38. Fotis, A.T., Murphy, S.J., Ricart, R.D., Krishnadas, M., Whitacre, J. and Wenzel, J.W. Queenborough, S.A., and Comita, L.S. 2018. Above-ground biomass is driven by mass-ratio effects and stand structural attributes in a temperate deciduous forest. Journal of Ecology 106: 561– 570.
39. Francis, C.M., and Wood, D.S. 1989. Effects of Age and Wear on Wing Length of Wood-Warblers Journal of Field Ornithology 60(4):495–503.
40. Gamper‐Rabindran, S. 2014. Information Collection, Access, and Dissemination to Support Evidence‐Based Shale Gas Policies. Energy Technology 2(12):977-987.
41. Gilbert, F. 2011. A Tale of Two Streams: What Louisiana Waterthrushes Tell us About Water Quality. Birding 43(3):32-42.
42. Gill, F. B. 1985 Birds. Pages 259-351 *in* Species of Special Concern in Pennsylvania, vol. 11 (H. H. Genoways and F. J. Brenner, Eds.). Carnegie Museum of Natural History, Pittsburgh, PA.
43. Granthon, C., and Williams, D.A. 2017. Avian Malaria, Body Condition, and Blood Parameters in Four Species of Songbirds. The Wilson Journal of Ornithology 129. 492-508.
44. Griffiths, E. T., Keen, S. C., Lanzone, M., and Farnsworth, A. 2016. Can Nocturnal Flight Calls of the Migrating Songbird, American Redstart, Encode Sexual Dimorphism and Individual Identity? PLOS ONE 11(7): e0160596.
45. Grubbs, S.A., and Cummins, K.W. 1994. Processing and Macroinvertebrate Colonization of Black Cherry (*Prunus serotina*) Leaves in Two Streams Differing in Summer Biota, Thermal Regime and Riparian Vegetation. The American Midland Naturalist 132(2):284–293.
46. Grubbs, S.A., and Cummins, K.W. 1994. A Leaf-Toughness Method for Directly Measuring the Processing of Naturally Entrained Leaf Detritus in Streams. Journal of the North American Benthological Society 13(1):68–73.
47. Grubbs, S., Jacobsen, R., and Cummins, K. 1995. Colonization by Chironomidae (Insecta, Diptera) on three distinct leaf substrates in an Appalachian mountain stream. Annales De Limnologie - International Journal of Limnology 31(2):105-118.
48. Grubbs, S.A., 1996. Stoneflies (Plecoptera) of Powdermill Nature Reserve, southwestern Pennsylvania. Entomological News 107:255-260.
49. Hagan, J. M. III, Lloyd-Evans, T. Atwood, J.L., and Wood, D.S. 1992. Long-term changes in migratory landbirds in the northeastern United States: evidence from migration capture data. Pp. 115-130 in Ecology and Conservation of Neotropical Migrant Landbirds (J. M. Hagan III and D. W. Johnston, eds.) Smithsonian Institution Press, Washington, DC.
50. Hall, G. A. 1981. Fall Migration Patterns of Wood Warblers in the Southern Appalachians. Journal of Field Ornithology 52(1):43–49.
51. Harrington, M.C.R., Tatzgern, M., Langer, T. and Wenzel, J.W. 2019. Augmented Reality Brings the Real World into Natural History Dioramas with Data Visualizations and Bioacoustics at the Carnegie Museum of Natural History. Curator, 62: 177-193. https://doi.org/10.1111/cura.12308
52. Harrington, M. C. R. 2020. "Observation of Presence in an Ecologically Valid Ethnographic Study Using an lmmersive Augmented Reality Virtual Diorama Application," 2020 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW), pp. 812-813, doi: 10.1109/VRW50115.2020.00257.
53. Harrington, M. C. R. "Connecting User Experience to Learning in an Evaluation of an Immersive, Interactive, Multimodal Augmented Reality Virtual Diorama in a Natural History Museum & the Importance of Story," 2020 6th International Conference of the Immersive Learning Research Network (iLRN), 2020, pp. 70-78, doi: 10.23919/iLRN47897.2020.9155202.
54. Heberling, J. Mason, and Muzika, Rose-Marie. 2023. Not All Temperate Deciduous Trees are Leafless in Winter: The Curious Case of Marcescence. Ecosphere 14( 3): e4410. https://doi.org/10.1002/ecs2.4410
55. Heimerdinger, M.A. and Leberman, R.C. 1966. The comparative efficiency of 30 and 36 mm mesh in mist nets. Bird-Banding 37(4):280-285.
56. Heimerdinger, M.A., and Parkes, K.C. 1966. Weights of migrant yellow warblers in Pennsylvania. British Birds 59: 315-316.
57. Henning, J. D., DeGroote, L., and Dahlin, C. R. 2015. Implementation of a Sampling Strategy to Detect West Nile Virus in Oral and Cloacal Samples in Live Song Birds. Journal of Virological Methods 222:81-84.
58. Hill E L, and Ma L. 2017. Does Shale Gas Development Impact Infant Health through Drinking Water? Working paper.
59. Hoenig, B.D., Trevelline, B.K., Nuttle, T. and Porter, B.A. 2021. Dietary DNA metabarcoding reveals seasonal trophic changes among three syntopic freshwater trout species. Freshwater Biology, 66(3), pp.509-523.
60. Hoenig, B.D., Trevelline, B.K., Kautz, A., Latta, S.C. and Porter, B.A. 2022. Two is Better than One: Coupling DNA metabarcoding and stable isotope analysis improves dietary characterizations for a riparian-obligate, migratory songbird. Molecular Ecology 31(21): 5635–5648.
61. Holmes, M.A., Whitacre, J.V., Bennion, L.D., Poteet, J., and Kuebbing, S.E. 2021. Land-use history and abiotic gradients drive abundance of non-native shrubs in Appalachian second-growth forests with histories of mining, agriculture, and logging. Forest Ecology and Management. https://doi.org/10.1016/j.foreco.2021.119296
62. Holmes, M.A., Whitacre, J.V., Bennion, L.D., Poteet, J., and Kuebbing, S.E. 2021. Native-exotic richness relationships in second-growth forests differ along a gradient of land-use history. Landscape Ecology. https://doi.org/10.1007/s10980-021-01355-y
63. Horton K. G., P.M. Stepanian, C. E. Wainwright, and A. K. Tegeler. 2015. Influence of atmospheric properties on detection of wood-warbler nocturnal flight calls. International Journal of Biometeorology 59(10):1385-94. doi: 10.1007/s00484-014-0948-8.
64. Horton, K., Morris, Sara, Van Doren, B., and Covino, K. 2023. Six decades of North American bird banding records reveal plasticity in migration phenology. Journal of Animal Ecology. 10.1111/1365-2656.13887.
65. Hudon, J., and Mulvihill, R. 2018. Diet-induced Plumage Erythrism as a Result of the Spread of Alien Shrubs in North America. North American Bird Bander 42:95-103.
66. Hughes, D. F. 2014. *Lithobates clamitans melanota* (Northern Green Frog) - Myiasis. Herpetological Review. 45(2):305.
67. Hughes, D.F. and Adams, J. M. 2015. *Opheodrys vernalis* (Smooth Greensnake) - Nest Site Selection. Herpetological Review 46(3):453.
68. Hughes, D.F., Tegeler, A.K. & Meshaka, W.E. Jr., Walter. 2016. Differential Use of Ponds and Movements by Two Species of Aquatic Turtles (*Chrysemys picta marginata* and *Chelydra serpentina serpentina*) and their Role in Colonization. Herpetological Conservation and Biology 11: 214-231.
69. Hughes, D.F., Johnston, K., and Meshaka, W.E. 2017. Nesting characteristics of three turtle species along a wetland matrix in western Pennsylvania, USA. The Herpetological Bulletin 141:16-22.
70. Hughes, D.& Hanes, C. 2022. *Notophthalmus viridescens* (Eastern Newt): Mandibular hypoplasia. Herpetological Review 53:458-459.
71. Hussell, D.J.T. 1982. The Timing of Fall Migration in Yellow-Bellied Flycatchers. Journal of Field Ornithology 53(1):1-6.
72. Immler, S., Calhim, S., and Birkhead, T.R. 2008. Increased postcopulatory sexual selection results in reduced intra-male variation of sperm design. Evolution 62:1538-1543.
73. Immler, S., Pitnick, S., Parker, G.A., Durrant, K., Lüpold, S., Calhim, S., and Birkhead, T.R. 2011. Resolving variation in the reproductive trade-off between sperm size and number. Proceedings of the National Academy of Science USA 108: 5325-5330.
74. Immler, S., Gonzalez-Voyer, A., and Birkhead, TR. 2012. Distinct evolutionary patterns of morphometric sperm traits in passerine birds. Proceedings of the Royal Society of London B 279: 4174-4182.
75. Iverson, S., Gavrilov, A., Katzner, T., Takekawa, J., Miller, T., Hagemeijer, W., Mundkur, T., Sivananinthaperumal, B., DeMattos, C., Ay, Ş., and Newman, S. 2011. Migratory movements of waterfowl in Central Asia and avian influenza emergence: Sporadic transmission of H5N1 from east to west. Ibis 153:279–292.
76. Jaffe, G., Zegers, D. A., Steele, M. A., and J. F. Merritt. 2005. Long-term patterns of botfly parasitism in *Peromyscus maniculatus, P. leucopus,* and *Tamias striatus.* Journal of Mammalogy 86:39-45.
77. James, F.C. 1970. Geographic size variation in birds and its relationship to climate. Ecology 51: 365-390.
78. Jansen, T., Aguayo, L., Whitacre, J., Bobitt, J., Payne, L., and Schwingel, A. 2019. Diabetes Disparities in Illinois. Preventing Chronic Disease 16:e19.
79. Jennings, O. E., and A. Avinoff. 1953. Wildflowers of Western Pennsylvania and the Upper Ohio Basin. University of Pittsburgh Press, Pittsburgh, PA.
80. Johnston, D.W. 1970. Age and sex distribution in Indigo Buntings. Bird-Banding 41:113-118.
81. Katzner T., B. W. Smith, T. A. Miller, D. Brandes, J. Cooper, M. Lanzone, D. Brauning, C. Farmer, S. Harding, D. E. Kramar, C. Koppie, C. Maisonneuve, M. Martell, E. K. Mojica, C. Todd, J. A. Tremblay, M. Wheeler, D. F. Brinker, T. E. Chubbs, R. Gubler, K. O'Malley, S. Mehus, B. Porter, R. P. Brooks, B. D. Watts, and K. L. Bildstein. 2012. Status, Biology, and Conservation Priorities for North America's Eastern Golden Eagle (*Aquila chrysaetos*) Population. The Auk 129:168-176.
82. Kautz, A.R., and Gardiner, M.M. 2019. Agricultural intensification may create an attractive sink for Dolichopodidae, a ubiquitous but understudied predatory fly family. Journal of Insect Conservation 23:453–465.
83. Kautz, A.R., Louw, M.R., Bartley, C., Morse, J.C., and Wenzel, J.W. 2022. Macroinvertebrates.org: Creating a Digital Teaching Collection of Common Freshwater Macroinvertebrates of Eastern North America. American Entomologist 68(1):28-31.
84. Keen, S., Ross, J.C., Griffiths, E.T., Lanzone, M. and Farnsworth, A. 2014. A comparison of similarity-based approaches in the classification of flight calls of four species of North American wood-warblers (Parulidae). Ecological Informatics 21:25-33.
85. Keiser, Carl N., Slyder, Jacob B., Carson, Walter P., Pruitt, Jonathan N. 2015. Individual differences in predators, but not producers, mediate the magnitude of a trophic cascade. Arthropod-Plant Interactions 9(3): 225-232.
86. King, Regina. 1976. Daily weight changes in migrant Yellow-rumped Warblers. North American Bird Bander 1(4):172-173.
87. Kipling, W. W., T. L Erwin, D. R. Maddison, and J. K. Liebherr. 2008. Tundra to tropics: Connecting birds, habitats and people. Anals of Carnegie Museum 77:iii-vi.
88. Krishnadas, M., Beckman, N.G., Zuluaga, J.C.P., Zhu, Y., Whitacre, J., Wenzel, J.W., Queenborough, S.A. and Comita, L.S. 2018. Environment and past land use together predict functional diversity in a temperate forest. Ecological Applications 28:2142-2152.
89. Krohne, D.T., Merritt, J.F., Vessey, S.H. and Wolff, J.O. 1988. Comparative demography of forest *Peromyscus*. Canadian Journal of Zoology 66(10):2170-2176.
90. Koenig, W. D., E. L Walters, J. R Wlaters, J. S. Kellam, K. G. Michalek, and M. S. Schrader. 2005. Seasonal body weight variation in five species of woodpeckers. The condor 107:810-822.
91. Laakkonen, J., Haukisalmi, V. and Merritt, J.F. 1997. Lung parasites of shrews from Pennsylvania. Journal of wildlife diseases 33(2):285-289.
92. Laakkonen, J., Haukisalmi, V. and Merritt, J.F. 1998. Blood parasites of shrews from Pennsylvania. The Journal of Parasitology:1300-1303.
93. Lanzone, M., E. Deleon, L. Grove, and A. Farnsworth. 2009. Revealing undocumented or poorly known flight calls of warbler (Parulidae) using a novel method of recording birds in captivity. The Auk 126:511-519.
94. Lanzone, M. 2011. Flight Calls and Implications for Conservation. The Yellowhammer: The Newsletter of the Alabama Ornithological Society 31(1):9-10.
95. Latta, K. 2009. What determines success? Breeding habitat characteristics of the Louisiana Waterthrush (*Seiurus motacilla*). Senior Honor Thesis (Bachelor’s), University of Michigan, Ann Arbor, MI.
96. Latta, S. C., and Mulvihill, R.S. 2010. The Louisiana Waterthrush as an indicator of headwater stream quality in Pennsylvania. Pp. 246-258 in (Majumdar et al., eds.) Avian ecology and conservation: a Pennsylvania focus with national implications. Pennsylvania Academy of Science, Easton, PA.
97. Latta, S.C., Marshall, L.C , Frantz, M.W., and Toms, J.D. 2015. Evidence from two shale regions that a riparian songbird accumulates metals associated with hydraulic fracturing. Ecosphere 6(9):1-10.
98. Latta, S. C., Cabezas, S., Mejia, D.A., Paulino, M. M., and Almonte, H. 2016. Carry-over effects provide linkages across the annual cycle of a Neotropical migratory bird, the Louisiana Waterthrush *Parkesia motacilla*. Ibis 158: 395-406. doi: 10.1111/ibi.12344
99. Leberman, R.C. 1964. Humming bird banding at Powdermill – 1963. Eastern Bird Banding Association News 27(6):272-273.
100. Leberman, R. C. 1965. Recent recoveries of chickadees. Eastern Bird Banding Association News 28(2):89-91.
101. Leberman, R. C. 1967. The influence of fat on bird weight. Eastern Bird Banding Association News 30(4): 181-184.
102. Leberman, R.C., and Clench, M.H. 1968. Bird-banding at Powdermill, 1968. Research Report No. 23, Carnegie Museum of Natural History, Pittsburgh, PA.
103. Leberman, R.C. 1970. Pattern and timing of skull pneumatization in the Ruby-crowned Kinglet. Bird-banding 41(2):121-124.
104. Leberman, R.C., and Clench, M.H. 1970. Bird-banding at Powdermill, 1969. Research Report No. 26, Carnegie Museum of Natural History, Pittsburgh, PA.
105. Leberman, R.C., and Clench, M.H. 1971. Bird-banding at Powdermill, 1970. Research Report No. 28, Carnegie Museum of Natural History, Pittsburgh, PA.
106. Leberman, R. C. 1972. Key to age and sex determination of Ruby-throated Hummingbirds in autumn. Inland Bird Banding News 44:197-202.
107. Leberman, R. C. 1973. A study of Tufted Titmouse weights. Eastern Bird Banding Association News 36:34-38.
108. Leberman, R.C. 1974. Powdermill Nature Reserve. In Atlantic Flyway report, region IV, ed. by D.F. Clark. Eastern Bird Banding Association News 37:20-21.
109. Leberman, R.C. 1975. Powdermill Nature Reserve. In Atlantic Flyway report, region IV, ed. by D.F. Clark. Eastern Bird Banding Association News 38:135-136.
110. Leberman, R.C. 1976. Powdermill Nature Reserve. In Atlantic Flyway report, region IV, ed. by D.F. Clark. North American Bird Bander 1:40-41.
111. Leberman, R. C. 1976. The Birds of the Ligonier Valley. Carnegie Museum of Natural History Special Publication 3, Pittsburgh, PA.
112. Leberman, R. C., and Micouman. 1976. Direct line recovery of a red-eyed vireo. Bird-Banding 47:366-367.
113. Leberman, R.C. and Stern, M.A. 1977. Handling induced shock in migrant songbirds. North American Bird Bander 2(2):50-54.
114. Leberman, R.C. 1977. Powdermill Nature Reserve – fall 1975. In Atlantic Flyway report, region IV, ed. by D.F. Clark. North American Bird Bander 2:34-35.
115. Leberman, R.C. 1977. Powdermill Nature Reserve – fall 1976. In Atlantic Flyway report, region IV, ed. by D.F. Clark. North American Bird Bander 2:186.
116. Leberman, R.C. 1978. Powdermill Nature Reserve – fall 1977. In Atlantic Flyway report, region IV, ed. by D.F. Clark. North American Bird Bander 3:177-178.
117. Leberman, R.C. 1978. Found: first western PA Yellow-throated Warbler nest. Bulletin of the Audubon Society of Western Pennsylvania 42:1.
118. Leberman, R.C. 1979. Powdermill Nature Reserve – fall 1978. In Atlantic Flyway report, region IV, ed. by D.F. Clark. North American Bird Bander 4:181-182.
119. Leberman R.C. 1981. Powdermill Nature Reserve – 1980 recoveries. North American Bird Bander 7:53.
120. Leberman, R.C. 1981. Powdermill Nature Reserve. In Atlantic Flyway report, region IV, ed. by D.F. Clark. North American Bird Bander 7:64.
121. Leberman, R. C. 1982. Studying the spring warbler migration. Bulletin of the Audubon Society of Western Pennsylvania 46:6-7.
122. Leberman, R.C. 1984. Rose underwings in female Rose-breasted Grosbeaks. Journal of Field Ornithology 55(4):486-487.
123. Leberman, R.C. 1984. Studying the spring warbler migration. Bird Watchers Digest 6:81-85.
124. Leberman, R.C. 1984. Powdermill Nature Reserve – fall 1982. In Atlantic Flyway report, region IV, ed. by D.F. Clark. North American Bird Bander 8:161-163.
125. Leberman, R.C., Mulvihill, R.S., and Wood, D.S. 1985. Bird-banding at Powdermill, 1984-with Ligonier Valley field notes. Powdermill Nature Reserve Research Reports No. 44, Carnegie Museum of Natural History, Pittsburgh, PA
126. Leberman, R.C. 1988. A field list of the birds of western Pennsylvania and adjacent regions. Carnegie Museum of Natural History Special Publication No. 13, 52 pp.
127. Leberman, R.C. and Mulvihill, R.S. 1988. Bird-banding at Powdermill, 1986. Powdermill Nature Reserve Research Reports No. 47, Carnegie Museum of Natural History, Pittsburgh, PA.
128. Leberman, R.C., Mulvihill, R.S., and Wood, D.S. 1990. Bird-banding at Powdermill, 1988-including an analysis of banding effort for the period 1962-1988. Powdermill Nature Reserve Research Report No. 49, Carnegie Museum of Natural History, Pittsburgh, PA.
129. Leberman, R.C., and Mulvihill, R.C. 1992. Powdermill Nature Reserve. In Atlantic Flyway report, region IV, ed. by E.W. Brooks. North American Bird Bander 17:161-162.
130. Leberman, R. C. 1992. First verifiable Pennsylvania record of Le Conte’s Sparrow, *Ammodramus leconteii*, Westmoreland County. Pennsylvania Birds 5:157-159.
131. Leberman, R.C., Mulvihill, R.S., and Niedermeier, M. 1994. Bird-banding at Powdermill, 1991-and thirty years reviewed. Powdermill Nature Reserve Research Reports No. 52, Carnegie Museum of Natural History, Pittsburgh, PA.
132. Leberman, R.C. and Mulvihill, R.S. 1995. Bird-banding at Powdermill, 1992. Powdermill Nature Reserve Research Reports No. 53, Carnegie Museum of Natural History, Pittsburgh, PA.
133. Leberman, R.C. 2002. Migration of Western and Yellow Palm Warblers at Powdermill Nature Reserve, Westmoreland County, Pennsylvania. Pennsylvania Birds 16:160-161.
134. Leberman, R.C. 2003. Eastern highlands and Upper Ohio River Valley—Spring Migration. North American Birds 57:343-345.
135. Leberman, R.C. 2003. Eastern highlands and Upper Ohio River Valley—Nesting Season. North American Birds 57:487-489.
136. Leberman, R.C. 2003. Eastern highlands and Upper Ohio River Valley—Fall Migration. North American Birds 57:53-55.
137. Leberman, R.C. 2003. Eastern highlands and Upper Ohio River Valley—Winter Migration. North American Birds 57:197-199.
138. Leberman, R.C., and R.S. Mulvihill. 2003. Powdermill Nature Reserve [Fall 2002 Banding Summary]. In (E. W. Brooks, ed.) Atlantic Flyway Review: Region III (Western Ridge). North American Bird Bander 28:135, 144-145.
139. Leberman, R.C., and R S. Mulvihill. 2004. Powdermill Nature Reserve [Spring 2003 Banding Summary]. *In* (E. W. Brooks, ed.) Atlantic Flyway Review. North American Bird Bander 28:180, 193-194.
140. Lee, C., Holdo, R., and Muzika, R. 2021. Feedbacks between forest structure and an opportunistic fungal pathogen. Journal of Ecology. 10.1111/1365-2745.13780.
141. Leppold, A.J., R.C. Leberman, and R.S. Mulvihill. 2004. Powdermill Nature Reserve [Spring 2004 Banding Summary]. *In* (E. W. Brooks, ed.) Atlantic Flyway Review: Region III. North American Bird Bander 29:205-207.
142. Leppold, A. J., R. C. Leberman, and R. S. Mulvihill. 2004. Powdermill Nature Reserve [Fall 2003 Banding Summary]. *In* (E. W. Brooks, ed.) Atlantic Flyway Review: Region III. North American Bird Bander 29:82-84.
143. Leppold, A. J., and Mulvihill, R. S. 2011. The Boreal Landbird Component of Migrant Bird Communities Eastern North America, pp.73-83 in Boreal Birds of North America (Wells, J. ed), University of California Press.
144. Liebhold, A.M., Hajek, A.E., Walter, J.A., Elkinton, J.E, Muzika, R.M. 2021. Historical change in the outbreak dynamics of an invading forest insect. Biological Invasions. https://doi.org/10.1007/s10530-021-02682-6
145. Lima, M., Merritt, J.F. and Bozinovic, F. 2002. Numerical fluctuations in the northern short‐tailed shrew: evidence of non‐linear feedback signatures on population dynamics and demography. Journal of Animal Ecology 71(2):159-172.
146. Lindsay, A.M. 2008. Seasonal events and associated carry-over effects in a Neotropical migratory songbird, the Yellow Warbler (*Dendroica petechial*). M.S. Thesis, The Ohio State University, Columbus, OH.
147. Linsday, A.M. and Ankney, B.D. 2021. Save Your Breath: Using an Air Compressor System to Part Feathers During Bird Banding. North American Bird Bander 46(3,4): 68-72.
148. Lindsay, A.M. 2022. Where do birds get fat? A new application of stable isotope analysis on fat stores in migrating songbirds. Pennsylvania Birds 36(1): 15-17.
149. Lindsay, A. 2023. Review of the book Identification Guide to North American Birds, Part I, Second Edition. Association of Field Ornithologists Book Review, https://afonet.org/2023/03/identification-guide-to-north-american-birds-part-i-second-edition/.
150. Lloyd, A.C., and Clench, M.H. 1969. A device for forming hummingbird bands. Bird-banding 40:45-46.
151. Louw, M., & Sanford-Dolly, C. W. 2023. Learning to see, seeing to learn: Impacts of an online tool on volunteers' observational practices during aquatic macroinvertebrate identification. Science Education, 1–33. https://doi.org/10.1002/sce.21834
152. Lüpold, S., Calhim, S., Immler, S., and Birkhead, T.R. 2009. Sperm morphology and sperm velocity in passerine birds. Proceedings of the Royal Society of London B 276:1175-1181.
153. Maginel, C.J., Knapp, B.O., Kabrick, J.M., and Muzika, R-M. 2019. Landscape- and site-level responses of woody structure and ground flora to repeated prescribed fire in the Missouri Ozarks. Canadian Journal of Forest Research 49(8):1004-1014.
154. Magoulick, D.D., and Wilzbach, M.A. 1997. Microhabitat Selection by Native Brook Trout and Introduced Rainbow Trout in a Small Pennsylvania Stream. Journal of Freshwater Ecology 12(4):607-614.
155. Magoulick, D.D. and Wilzbach, M.A. 1998. Are native brook charr and introduced rainbow trout differentially adapted to upstream and downstream reaches? Ecology of Freshwater Fish 7:167-175.
156. Majumdar, S. K., T. L. Master, M. C. Brittingham, R. M. Ross, R. S. Mulvihill, and J. E. Huffman (Eds.). 2010. Avian Ecology and Conservation: A Pennsylvania Focus with National Implications. Pennsylvania Academy of Science, Easton, PA.
157. Marra, P. P., C. M. Francis, R. S. Mulvihill, and F. R. Moore. 2005. The influence of climate on the timing and rate of spring bird migration. Oecologia 142:307-315.
158. Martin, A.K., Hughes, D.F. and Sheridan, J.A. 2021. Changes in an Amphibian Community at Powdermill Nature Reserve, Southwest Pennsylvania, Over a 37-Year Period. Annals of Carnegie Museum 87(2):157-166.
159. Martin, A.K., Sheridan, J.A. 2022. Seasonal Amphibian Species Richness and Population Fluctuations at Powdermill Nature Reserve, Pennsylvania, U.S.A. The American Midland Naturalist 188(2): 212-233.
160. Master, T. L., R. S. Mulvihill, R. C. Leberman, J. Sánchez, and E. Carman. 2005. A preliminary study of riparian songbirds in Costa Rica, with emphasis on wintering Louisiana Waterthrush. Pages 528-532 *in* Bird Conservation and Implementation and Integration in the Americas: Proceedings of the Third International Partner in Flight Conference, 20-24 March 2002, Asilomar, CA, vol. 1 (C. J. Ralph and T. D. Rich, Eds.). U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station, Albany, CA.
161. Master, T. L., Mulvihill, R.S., and Latta, S.C. 2010. Louisiana Waterthrush (*Seiurus motacilla*). In Terrestrial vertebrates of concern in Pennsylvania: A guide to conservation, management, and research (M. A. Steele, M. C. Brittingham, T. Maret and J. F. Merritt, eds.). Pennsylvania Game Commission and John Hopkins University Press, Baltimore, MD.
162. Master, T. L. and M. C. Allen. 2012. Acadian Flycathcher (Empidonax virescens) nest tail structure and function in temperate forests. The American Midland Naturalist 167:136-149.
163. Mathias, J. M., Smith, K. R., Lantz, K. E., Allen, K. T., Wright, M. J., Sabet, A., Anderson-Teixeira, K. J., & Thomas, R. B. 2023. Differences in leaf gas exchange strategies explain *Quercus rubra* and *Liriodendron tulipifera* intrinsic water use efficiency responses to air pollution and climate change. *Global Change Biology*, 29, 3449– 3462. <https://doi.org/10.1111/gcb.16673>
164. Matt, K.S., Bozinovic, F. and Merritt, J.F. 1994. Energetic costs of biparental care behavior in the Siberian dwarf hamster *Phodopus sungorus*. Revista Chilena de Historia Natural 67:309-314.
165. Mattsson, B. J., S. C. Latta, R. J. Cooper, and R. S. Mulvihill. 2011. Latitudinal variation in reproductive strategies by the migratory Louisiana Waterthrush. The Condor 113:412-418.
166. Mattsson, B. J., T. L. Master, R. S. Mulvihill, and W. D. Robinson. 2009. Louisiana Waterthrush (*Seiurus motacilla*). *In* The Birds of North America Online, no. 151 (A. Poole, Ed.). Cornell Lab of Ornithology, Ithaca, NY.
167. McDermott, M. E. and DeGroote, L. W. 2016. Long-term climate impacts on breeding bird phenology in Pennsylvania, USA. Global Change Biology 22: 3304-3319. doi: 10.1111/gcb.13363
168. McDermott, M. E., and DeGroote, L. W. 2017. Linking phenological events in migratory passerines with a changing climate: 50 years in the Laurel Highlands of Pennsylvania. PloS one 12(4):e0174247. <https://doi.org/10.1371/journal.pone.0174247>
169. Mebs, D., Yotsu-Yamashita, M., and Arakawa, O. 2016. The praying mantis (Mantodea) as predator of the poisonous red-spotted newt *Notophthalmus viridescens* (Amphibia: Urodela: Salamandridae). Chemoecology 26:121-126.
170. Mebs, D., Yotsu-Yamashita, M., Hartmann, K., Elbert, C., Zehner, R. and Toennes, S.W. 2020. Revisited-Failure of tetrodotoxin to protect red-spotted newts, *Notophthalmus viridescens*, from endoparasites. Toxicon 178:77-81.
171. Meindl, G.A., and Ashman, T.R. 2013. The effects of aluminum and nickel in nectar on the foraging behavior of bumblebees. Environmental pollution 177C: 78-81.
172. Meindl, G.A., and Ashman, T.R. 2014. Nickel accumulation by *Streptanthus polygaloides* (Brassicaceae) reduces floral visitation rate. Journal of Chemical Ecology 40(2):128-35.
173. Merritt, J.F. 1981. *Clethrionomys gapperi*. Mammalian Species (146):1-9.
174. Carter, J.L. and Merritt, J.F. 1981. Evaluation of swimming ability as a means of island invasion by small mammals in coastal Virginia. Annals of the Carnegie Museum 50:31-46.
175. Merritt, J. F. 1984. Winter ecology of small mammals. Print. Pittsburgh, Carnegie Museum of Natural History.
176. Merritt, J.F. 1984. Growth patterns and seasonal thermogenesis of *Peromyscus maniculatus* inhabiting the Appalachian and Rocky mountains of North America. Annals of Carnegie Museum 53:527-548.
177. Merritt, J.F. 1985. Influence of snowcover on survival of *Clethrionomys gapperi* inhabiting the Appalachian and Rocky Mountains of North America. Acta Zoologica Fennica 173:73-74.
178. Merritt, J.F. 1986. Winter survival adaptations of the short-tailed shrew (*Blarina brevicauda*) in an Appalachian montane forest. Journal of Mammalogy 67(3):450-464.
179. Merritt, J. F. 1987. Guide to the Mammals of Pennsylvania. University of Pittsburgh Press, Pittsburgh, PA.
180. Merritt, J.F. and Zegers, D.A. 1991. Seasonal thermogenesis and body-mass dynamics of *Clethrionomys gapperi*. Canadian Journal of Zoology 69(11):2771-2777.
181. Merritt, J.F., Kirkland, G.L. and Rose, R.K. eds. 1994. Advances in the biology of shrews. Pittsburgh, Pennsylvania: Carnegie Museum of Natural History.
182. Merritt, J.F. 1995. Seasonal thermogenesis and changes in body mass of masked shrews, *Sorex cinereus*. Journal of Mammalogy 76(4):1020-1035.
183. Merritt, J.F. and Vessey, S.H., 2000. Shrews—small insectivores with polyphasic patterns. In Activity patterns in small mammals (pp. 235-251). Springer, Berlin, Heidelberg.
184. Merritt, J.F., Zegers, D.A. and Rose, L.R. 2001. Seasonal thermogenesis of southern flying squirrels (*Glaucomys volans*). Journal of Mammalogy 82(1):51-64.
185. Merritt, J.F., Lima, M. and Bozinovic, F. 2001. Seasonal regulation in fluctuating small mammal populations: feedback structure and climate. Oikos 94(3):505-514.
186. Merritt, J.F. and Zegers, D.A. 2002. Maximizing survivorship in cold: thermogenic profiles of non-hibernating mammals. Acta Theriologica 47(1):221-234.
187. Merritt, J. F., and D. A. Zegers. 2003. Maximizing survivorship in cold: thermogenic profiles of non-hibernating mammals. 4th European Congress of Mammalogy, Brno, Czech Republic (Abstract).
188. Merritt, J. F., S. Churchfield, R. Hutterer, and B.I. Sheftel. 2005. Advances in the Biology of Shrews II. International Society of Shrew Biologists, New York, NY.
189. Meshaka, W. E., Jr., and M. L. D. Wilkerson. 2008. Seasonal activity, reproduction, and growth of the Ringneck Snake (*Diadophis punctatus*) in Pennsylvania. Journal of Kansas Herpetology 28:17-20.
190. Meshaka, W. E., Jr., J. N. Huff, and R. C. Leberman. 2008. Amphibian and Reptiles of Powdermill Nature Reserve in Western Pennsylvania. Journal of Kansas Herpetology 25:12-18.
191. Meshaka, W. E., Jr., J. T. Collins, and S. L. Collins. 2009. A Pocket Guide to Pennsylvania Snakes. Commonwealth of Pennsylvania, Harrisburg, PA.
192. Meshaka, W. E., Jr., S. D. Marshall, T. J. Guiher, and L. Zemba. 2009. Grassland snake assemblages in central and western Pennsylvania and northeastern Ohio.The Herpetological Bulletin 110:8-19.
193. Meshaka Jr, W.E. 2009. The terrestrial ecology of an Allegheny amphibian community: Implications for land management. Maryland Naturalist 50(1):30-56.
194. Meshaka, W. E., Jr. 2010. Seasonal activity and breeding seasons of snakes from Powdermill Nature Reserve in western Pennsylvania: The importance of site-specific data in land management programs. Herpetological Conservation and Biology 5(1):155-165.
195. Meshaka, W. E., Jr., J. T. Collins, and S. L. Collins. 2010. A Pocket Guide to Pennsylvania Frogs & Toads. Commonwealth of Pennsylvania, Harrisburg, PA.
196. Meshaka, W. E., Jr., K. E. Shelly, and M. Kaunert. 2010. Clutch characteristics of two rat snake species from Pennsylvania. Journal of Kansas Herpetology 36:16.
197. Meshaka, W. E., Jr. 2011. Overwintering by tadpoles of the Green Frog, *Lithobates clamitans melanota* (Rafinesque, 1820), in western Pennsylvania. Herpetology Notes 4:311-314.
198. Meshaka, W. E., Jr. 2011. Seasonal activity, reproduction, and growth of the Northern Redbelly Snake, *Storeria occipitomaculata* (Storer, 1839), from Pennsylvania. Journal of Kansas Herpetology 37:16-20.
199. Meshaka W.E., Jr. and Hughes, D.F. 2014. Adult body size and reproductive characteristics of the green frog, *Lithobates clamitans melanotus* (Rafinesque, 1820), from a single site in the northern Allegheny Mountains. Collinsorum: Journal of the Kansas Herpetological Society 3:13–16.
200. Meshaka, W. E., Jr. and Mortzfeldt, S. A. 2014. Ecology of a Terrestrially Active Salamander Assemblage in a Northern Allegheny Forest. Bulletin of the Maryland Herpetological Society 50(1-2):12-21.
201. Meshaka, W. E., Jr., Wingert, E., Humbert, W., McCallum, M.L., and Delis, P.R. 2017. Gonadal cycles, clutch characteristics, and growth to sexual maturity in the American toad, *Anaxyrus americanus* (Holbrook), from an agricultural belt in south central Pennsylvania. Journal of the Pennsylvania Academy of Science 91(2): 84-94.
202. Meshaka, W. E., Jr., Lindsay, C.G., Mack, A., and McCallum, M. 2019. A Survey of Terrestrially Active Salamanders from Two Different Woodlands at the Powdermill Nature Reserve, Pennsylvania. Northeastern Naturalist 26:629 - 640.
203. Meshaka, W. E., Jr., Humbert, W. S., McCallum, M. L., and Delis, P. R. 2020. Loss of Habitat Leads to Bigger Toads and Bigger Eggs: Natural Area Management Predictions for the Eastern American Toad, *Anaxyrus americanus americanus* (Holbrook, 1836). Annals of Carnegie Museum 86(1):77-88.
204. Miller, T. A. 2007. Habitat modeling, validation and creation using Second Pennsylvania Breeding Bird Atlas data. M.S. thesis, The Pennsylvania State University, University Park, PA.
205. Mills, A. M. 2016. Banding data reveal bias in age-class sampling of songbirds during spring migration. Journal of Field Ornithology 87(3):323-336.
206. Milt, A.W., 2015. Conservation Planning in a Changing World. (Doctoral Dissertation, University of Tennessee).
207. Milt, A.W., Gagnolet, T. and Armsworth, P.R. 2016. Synergies and tradeoffs among environmental impacts under conservation planning of shale gas surface infrastructure. Environmental Management 57(1):21-30.
208. Mitchell, A.L., 2013. Analysis of health and environmental risks associated with Marcellus Shale development (Doctoral dissertation, Carnegie Mellon University).
209. Moore, C. 1979. Comparison of three breeding bird census methods in two successional habitats. M.S. thesis, Cornell University.
210. Morán-López, T., Espíndola, W.D., Vizzachero, B.S., Fontanella, A., Salinas, L., Arana, C., Amico, G., Pizo, M.A., Carlo, T.A. and Morales, J.M. 2020. Can network metrics predict vulnerability and species roles in bird-dispersed plant communities? Not without behaviour. Ecology Letters 23: 348-358.
211. Morris, S.R., Horton, K., Tegeler, A.K., and Lanzone, M. 2016. Individual flight-calling behaviour in wood warblers. Animal Behaviour 114: 241-247.
212. Morris, S. R., and K. M. Covino, J. D. Jacobs, and Taylor, P. D. 2016. Fall migratory patterns of the Blackpoll Warbler at a continental scale. The Auk 133(1):41-51.
213. Mulvihill, R.S., and Leberman, R.C. 1983. Bird-banding at Powdermill, 1982-with Ligonier Valley field notes. Powdermill Nature Reserve Research Reports No. 44, Carnegie Museum of Natural History, Pittsburgh, PA
214. Mulvihill, R.S., and Leberman, R.C. 1984. Bird-banding at Powdermill, 1983-with Ligonier Valley field notes. Powdermill Nature Reserve Research Reports No. 44, Carnegie Museum of Natural History, Pittsburgh, PA
215. Mulvihill, R.S., and Leberman, R.C. 1987. Bird-banding at Powdermill, 1985-with a summary of Ruby-throated Hummingbird banding data. Powdermill Nature Reserve Research Report No. 46, Carnegie Museums of Natural History, Pittsburgh, PA.
216. Mulvihill, R.S. 1987. Runt eggs: a discovery, a synopsis, and a proposal for future study. North American Bird Bander 12(3):94-96.
217. Mulvihill, R. S. 1988. The occurrence of Dickcissels (*Spiza americana*) in western Pennsylvania—its possible bearing on the species’ unusual history in eastern North America. Pennsylvania Birds 2:83-87.
218. Mulvihill, R.S. and Leberman, R.C. 1988. Powdermill Nature Reserve. In Atlantic Flyway report, region IV, ed. by D.F. Clark. North American Bird Bander 13:80-82.
219. Mulvihill, R.S. and Chandler, C.R. 1990. The relationship between wing shape and differential migration in the Dark-eyed Junco. The Auk 107(3):490-499.
220. Mulvihill, R.S., and Leberman, R.C. 1990. Bird-banding at Powdermill 1987. Powdermill Nature Reserve Research Report No. 48, Carnegie Museums of Natural History, Pittsburgh, PA.
221. Mulvihill, R.S., and Leberman, R.C. 1990. Bird-banding at Powdermill 1989. Powdermill Nature Reserve Research Report No. 50, Carnegie Museums of Natural History, Pittsburgh, PA.
222. Mulvihill, R.S. and Chandler, C.R. 1991. A comparison of wing shape between migratory and sedentary Dark-eyed Juncos (*Junco hyemalis*). Condor 93:172-175.
223. Mulvihill, R. S., and Leberman, R.C. 1991. Rufous Hummingbird, *Selasphorus rufus*, Westmoreland County. Pennsylvania Birds 4:139-141.
224. Mulvihill, R. S., K. C. Parkes, R. C. Leberman, and D. S. Wood. 1992. Evidence supporting a dietary basis for orange-tipped rectrices in the Cedar Waxwing. Journal of Field Ornithology 63:212-216.
225. Mulvihill, R.S., Leberman, R.C. and Wood, D.S. 1992. A possible relationship between reversed sexual size dimorphism and reduced male survivorship in the Ruby-throated Hummingbird. The Condor 94(2):480-489.
226. Mulvihill, R.S. 1993. Using wing molt to age passerines. North American Bird Bander 18(1):1-10.
227. Mulvihill, R. S. 1993. Interspecific analysis of wing shape variation in selected wood warblers (Aves: Parulinae). Master’s thesis, Indiana University of Pennsylvania, 115 pp.
228. Mulvihill, R.S. and Leberman, R.C. 1997. Factors affecting the survival of ovenbirds wintering in the Northeast. The Wilson Bulletin 109(1):161-166.
229. Mulvihill, R.S. and Winstead, R.L. 1997. Variation in the Extent of the First Prebasic Wing Molt of Dark-Eyed Juncos. Journal of Field Ornithology 68:183-199.
230. Mulvihill, R.S. and Rimmer, C.C. 1997. Timing and extent of the molts of adult Red-eyed Vireos on their breeding and wintering grounds. The Condor 99(1):73-82.
231. Mulvihill, R.S. 1999. Effects of stream acidification on the breeding biology of an obligate riparian songbird, the Louisiana Waterthrush (*Seiurus motacilla*). Pp. 51-61 in Proceedings of the 1998 PA Acidic Deposition Conference, Vol. 2 (W. E. Sharpe and J. R. Drohan, eds.), Environmental Resources Research Institute, University Park, PA.
232. Mulvihill, R.S., Cunkelman, A., Quattrini, L., O’Connell, T.J. and Master, T.L. 2002. Opportunistic polygyny in the Louisiana Waterthrush. The Wilson Bulletin 114(1):106-113.
233. Mulvihill, R. S., R. C. Leberman, and A. J. Leppold. 2004. Relationships among body mass, fat, wing length, age and sex for 170 species of birds banded at Powdermill Nature Reserve. Eastern Bird Banding Association Monographs No. 1:1-184.
234. Mulvihill, R. S., Newell, F. L., and S. C. Latta. 2008. Effects of acidification on the breeding ecology of a stream-dependent songbird, the Louisiana Waterthrush (*Seriurus motacilla*). Freshwater Biology 53:2158-2169.
235. Mulvihill, R. S., S. C. Latta, and Newell, F. L. 2009. Temporal constraints on the incidence of double brooding in the Louisiana Waterthrush. The Condor 111:341-348.
236. Murillo, J., E. Campbell-Thompson, T. F. Bishop, C. W. Beck, and H. G. Spencer. 2023. Report of bilateral gynandromorphy in a Green Honeycreeper (Chlorophanes spiza) from Colombia. Journal of Field Ornithology 94(4):12. https://doi.org/10.5751/JFO-00392-940412
237. Murphy, S.J., L.D. Audino, J. Whitacre, J.L. Eck, J.W. Wenzel, S. Queenborough, and L.S. Comita. 2015. Species associations structured by environment, space, and land use history promote beta-diversity within a relatively homogeneous temperate forest. Ecology 96: 705-715.
238. Murphy, S.J. 2018. Community Assembly and Dynamics of the Forests of Powdermill Nature Reserve (Rector, PA). Doctoral dissertation, The Ohio State University.
239. Murphy, S. J., and Comita, L.S. 2020. Large mammalian herbivores contribute to conspecific negative density dependence in a temperate forest. Journal of Ecology 109 (3): 1194-1209.
240. Newell, F. L., and M. S. Kostalos. 2007. Wood Thrush nests in dense understory may be vulnerable to predators. The Wilson Journal of Ornithology 119:693-702.
241. Nisbet, I.C.T. 1969. Returns of transients: results of an inquiry. Eastern Bird Banding Association News 32: 269-274.
242. Nisbet, I.C.T. 1970. Autumn Migration of the Blackpoll Warbler: Evidence for long flight provided by regional survey. Bird Banding 41:207-240
243. Norman, D. 2007. Birds in European cities. The Wilson Journal of Ornithology 119:323.
244. O’Connell, T., J. Bishop, R. Mulvihill, M. Lanzone, T. Miller, and R. Brooks. 2004. Sampling design for Pennsylvania’s Second Breeding Bird Atlas, 2004-2009. Unpublished report submitted to the Pennsylvania Game Commission, Harrisburg, PA.
245. O’Connell, T. J., R. P. Brooks, S. E. Laubscher, R. S. Mulvihill, and T. E. Master. 2003. Using Bioindicators to Develop a Calibrated Index of Regional Ecological Integrity for Forested Headwater Ecosystems. Penn State Cooperative Wetlands Center, The Pennsylvania State University, University Park, PA.
246. Parkes, K.C. and Leberman, R.C. 1967. Abnormal Retention of Juvenal Feathers by a Catbird. Bird-Banding 38(4):326-326.
247. Parkes, K.C. 1968. Some Bird Records from Western Pennsylvania. The Wilson Bulletin 80(1):100–102.
248. Parkes, K.C. 1969. On abnormally crossed mandibles in birds. Wilson Bulletin 81:342.
249. Parkes, K.C. and Clench, M.H. 1972. Recovery of a Pennsylvania-Banded Blue-Gray Gnatcatcher in Western México. The Condor 74(2):222-222.
250. Parkes, Kenneth C. 1988. Color Variation in Male Scarlett Tanager Wings. Bird Observer: Vol. 16: Issue 6, Article 5.
251. Pearce, T. A., and M. S. Murphy. 2006. Identification Guide to Conspicuous Land Snails and Slugs of Powdermill Nature Reserve, Westmoreland County, Pennsylvania. Carnegie Museum of Natural History, Pittsburgh, PA.
252. Pearce, T.A., Mulvihill, R.S. and Porter, K.A. 2012. Land slugs (Gastropoda: Pulmonata) on birds demonstrate dispersal potential. Nautilus 126(1):38-40.
253. Pence, J., Miller, I., Sakurahara, T., Whitacre, J., Reihani, S., Kee, E., and Mohaghegh, Z. 2019. GIS-Based Integration of Social Vulnerability and Level 3 Probabilistic Risk Assessment to Advance Emergency Preparedness, Planning, and Response for Severe Nuclear Power Plant Accidents. Risk analysis: an official publication of the Society for Risk Analysis 39(6):1262–1280.
254. Perry, K. I. 2016. Responses of Ground-dwelling Invertebrate Communities to Disturbance in Forest Ecosystems. Ohio State University, Doctoral dissertation. OhioLINK Electronic Theses and Dissertations Center, http://rave.ohiolink.edu/etdc/view?acc\_num=osu148068350792523.
255. Perry, K.I., Wallin, K.F., Wenzel, J.W., and Herms, D.A. 2017. Characterizing Movement of Ground-Dwelling Arthropods with a Novel Mark-Capture Method Using Fluorescent Powder. Journal of Insect Behavior 30: 32–47.
256. Perry, K. I., Wallin, K. F., Wenzel, J. W., and Herms, D. A.. 2018. Forest disturbance and arthropods: Small-scale canopy gaps drive invertebrate community structure and composition. Ecosphere 9(10):e02463.\
257. Perry, K. I., F. S. Sivakoff, K. F. Wallin, J. W. Wenzel, and Herms, D.A. 2021. Forest disturbance and arthropods: small-scale canopy and understory disturbances alter movement of mobile arthropods. Ecosphere 12(11):e03771.10.1002/ecs2.3771
258. Phan, T.T., Capo, R.C., Stewart, B.W., Graney, J.R., Johnson, J.D., Sharma, S. and Toro, J. 2015. Trace metal distribution and mobility in drill cuttings and produced waters from Marcellus Shale gas extraction: Uranium, arsenic, barium. Applied Geochemistry 60:89-103.
259. Phan, T.T., Capo, R.C., Stewart, B.W., Macpherson, G.L., Rowan, E.L. and Hammack, R.W. 2016. Factors controlling Li concentration and isotopic composition in formation waters and host rocks of Marcellus Shale, Appalachian Basin. Chemical Geology 420:162-179.
260. Phan, T.T., Hakala, J.A., Lopano, C.L. and Sharma, S. 2019. Rare earth elements and radiogenic strontium isotopes in carbonate minerals reveal diagenetic influence in shales and limestones in the Appalachian Basin. Chemical Geology 509:194-212.
261. Pharo, L.R. 1979. The 1977-78 invasion of grosbeaks and siskins. North American Bird Bander 4:15.
262. Pharr, L.D., Lindsay, A.M., and Moorman, C.E. 2021. An Introduction to Bird Banding. The Nature Conservancy Birds and Birding Blog. https://blog.nature.org/science/2021/09/08/an-introduction-to-bird-banding/
263. Phillips, A.R. and Lanyon, W.E. 1970. Additional notes on the flycatchers of Eastern North America. Bird-Banding 41:190-197.
264. Platt, R. V., Manthos, D., and Amos, J. 2018. Estimating the Creation and Removal Date of Fracking Ponds Using Trend Analysis of Landsat Imagery. Environmental management 61(2):310–320.
265. Prescott, K.W. 1973. Late fall banding dates for the Ruby-crowned Kinglet. Inland Bird Banding News 45:136-137.
266. Rahm, B.G., Vedachalam, S., Bertoia, L.R., Mehta, D., Vanka, V.S. and Riha, S.J. 2015. Shale gas operator violations in the Marcellus and what they tell us about water resource risks. Energy Policy 82:1-11.
267. Raikow, D.F., Grubbs, S.A., and Cummins, K.W. 1995. Debris Dam Dynamics and Coarse Particulate Organic Matter Retention in an Appalachian Mountain Stream. Journal of the North American Benthological Society 14(4):535-546.
268. Ralph, C.J. 1981. Age ratios and their possible use in determining autumn routes of passerine migrants. Wilson Bulletin 93:164-188.
269. Randle, C.P. and Wenzel, J.W. 2014. Research Note: Deer Browsing Threatens a Locally Rare Parasitic Plant, Buffalo Nut (*Pyrularia pubera* Michx.). Journal of the Pennsylvania Academy of Science 88(4):231-234.
270. Rangel, J., Traver, B., Stoner, M., Hatter, A., Trevelline, B., Garza, C., Shepherd, T., Seeley, T.D. and Wenzel, J. 2020. Genetic diversity of wild and managed honey bees (*Apis mellifera*) in Southwestern Pennsylvania, and prevalence of the microsporidian gut pathogens *Nosema ceranae* and *N. apis*. Apidologie 51(5):802-814.
271. Reed, S. E., English, J. T., and Muzika, R. M. 2019. *Phytophthora* Species Detected in Two Ozark Forests with Unusual Patterns of White Oak Mortality. Plant Disease 103(1):102–109.
272. Ress, E. M., A. Farnsworth, S. R. Morris, M. Lanzone, B. M. Van Doren. 2023. Magnolia Warbler flight calls demonstrate individuality and variation by season and recording location. Ornithology. November 15, 2023. doi.org/10.1093/ornithology/ukad056.
273. Rhinehart, T.A., Turek, D. and Kitzes, J. 2022. A continuous-score occupancy model that incorporates uncertain machine learning output from autonomous biodiversity surveys. Methods in Ecology and Evolution. https://doi.org/10.1111/2041-210X.13905
274. Richards, S.J., Mack, A.L. and Austin, C.C., 2007. Two new species of *Platymantis* (Anura: Ceratobatrachidae) from the Admiralty Archipelago, Papua New Guinea. Zootaxa 1639(1):41-55.
275. Rives, R.G., Knapp, B.O., Olson, M.G., Weegman, M.D. and Muzika, R.M. 2020. Regenerating mixed bottomland hardwood forests in north Missouri: Effects of harvest treatment on structure, composition, and growth through 15 years. Forest Ecology and Management 475:118371.
276. Rotenberry, J.T., and Chandler, C.R. 1999. Dynamics of warbler assemblages during migration. The Auk 116:769-780
277. Sánchez, J. E., Mulvihill, R. S. & T. L. Master. 2000. First description of the nest and eggs of the Green-crowned Brilliant (*Heliodoxa jacula*), with some behavioral notes. Ornitología Neotropical 11:189-196.
278. Seth, Susami. 2022. The influence of hydrogen peroxide on the enrichment of Fe(III) reducing bacteria from acid mine drainage. Williams Honors College, Honors Research Projects. 1621.

https://ideaexchange.uakron.edu/honors\_research\_projects/1621

1. Sheppard, C. 2019. Evaluating the relative effectiveness of patterns on glass as deterrents of bird collisions with glass. Global Ecology and Conservation 20:e00795.
2. Slyder, J.B., Whitacre, J.V., and Wenzel, J. 2015. Painting a clearer picture of shale gas development. ArcNews 37(1): 20-21.
3. Slyder, J.B., Carr, J.C., and Mercurio, M. 2017. Turning Adversity into Opportunity. ArcUser 20(1): 16-19.
4. Slyder, J.B., Wenzel, J.W., Royo, A.A. Spicer, M.E., and Carson, W.P. 2020. Post-windthrow salvage logging increases seedling and understory diversity with little impact on composition immediately after logging. New Forests 51:409–420.
5. Spicer, M.E., Suess, K.F., Wenzel, J.W., and Carson, W.P. 2018. Does salvage logging erase a key physical legacy of a tornado blowdown? A case study of tree tip-up mounds. Canadian Journal of Forest Research 48(8): 976-982.
6. Spicer, M. E., Mellor, H., and Carson, W. P. 2020. Seeing beyond the trees: a comparison of tropical and temperate plant growth-forms and their vertical distribution. Ecology 101(4):e02974. 10.1002/ecy.2974
7. Spicer, M.E., Royo, A.A., Wenzel, J.W. and Carson, W.P., 2023. Understory plant growth forms respond independently to combined natural and anthropogenic disturbances. *Forest Ecology and Management*, *543*, p.121077.
8. Stajich JE, Lovett B, Ettinger CL, Carter-House DA, Kurbessoian T, Kasson MT. An Improved 1.5-Gigabase Draft Assembly of *Massospora cicadina* (Zoopagomycota), an Obligate Fungal Parasite of 13- and 17-Year Cicadas. Microbiology Resoure Announcements. 2022 Aug 29:e0036722. doi: 10.1128/mra.00367-22. Epub ahead of print. PMID: 36036589.
9. Steele, M. A., M. C. Brittingham, T. J. Maret, and J. F. Merritt. 2010. Terrestrial Vertebrates of Pennsylvania: A Complete Guide to Species of Conservation Concern. The Johns Hopkins University Press, Baltimore, MD.
10. Stuart, K.C., Sherwin, W.B., Austin, J.J., Bateson, M., Eens, M., Brandley, M.C., and Rollins, L.A. 2022. Historical museum samples enable the examination of divergent and parallel evolution during invasion. Molecular Ecology. doi: 10.1111/mec.16353.
11. Swartz, K.A., Weathers, T.C., Zembower, N.M., Wu, D., Kautz, A.R., Stouffer, B., Wenzel, J.W., and Carlson, J.E. 2022. Genetic Variation and Conservation Implications for the Rare and Imperiled Buffalo Nut (Pyrularia pubera). Annals of the Carnegie Museum 87(3): 235–248.
12. Sykora, J., Walker, W., Vest, D., and Weaver, J. 1976. Notes on the Seasonal Distribution and Taxonomy of *Pycnopsyche* Adults (Trichoptera: Limnephilidae). Proceedings of the Pennsylvania Academy of Science 50(2):133-135.
13. Sykora, J. L., and Weaver, J.S. III. 1976. A new species of *Rhyacophila* (Trichoptera: Rhyacophilidae) from western Pennsylvania. Annals of Carnegie Museum 46:29-32.
14. Sykora, J. L., and Weaver, J.S. III. 1978. Three new species of Trichoptera from western Pennsylvania.. Annals of Carnegie Museum 47:1-12.
15. Tchabovsky, A., Merritt, J.F. and Aleksandrov, D.Y. 2004. Ranging patterns of two syntopic gerbillid rodents: a radiotelemetry and live-trapping study in semi-desert habitat of Kalmykia, Russia. Acta Theriologica 49(1):17-31.
16. Tegeler, A.K., Horton, K., and Morris, S.R. 2018. Is flight-calling behaviour influenced by age, sex and/or body condition? Animal Behaviour 138:123-129.
17. Teixeira-Costa, Luiza. 2023. Cannibal plants: intraspecific autoparasitism among host-specific holoparasites. Botany. e-First https://doi.org/10.1139/cjb-2023-0081
18. The Memorials Committee. 2022. Robert Charles Leberman, 1937–2020. Ornithology 140: 1–2. https://doi.org/10.1093/ornithology/ukac046
19. Trevelline, B. K. Latta, S. C., Marshall, L. C., Nuttle, T., and Porter, B. A. 2016. Molecular analysis of nestling diet in a long-distance Neotropical migrant, the Louisiana Waterthrush (*Parkesia motacilla*). The Auk 133: 415–428.
20. Trevelline, B. K., Nuttle, T., Porter, B. A., Brouwer, N. L., Hoenig, B. D., Steffensmeier, Z. D., and Latta, S. C. 2018. Stream acidification and reduced aquatic prey availability are associated with dietary shifts in an obligate riparian Neotropical migratory songbird. PeerJ 6:e5141.
21. Trevelline, B. K., Nuttle, T., Hoenig, B. D., Brouwer, N. L., Porter, B. A., and Latta, S. C. 2018. DNA metabarcoding of nestling feces reveals provisioning of aquatic prey and resource partitioning among Neotropical migratory songbirds in a riparian habitat. Oecologia 187(1):85–98.
22. Utech, F. H. 1999. Checklist of the Vascular Plants of Powdermill Nature Reserve, Westmoreland Couty, Pennsylvania. Carnegie Museum of Natural History, Pittsburgh, PA.
23. Van Buskirk, J., R. S. Mulvihill, and R. C. Lieberman. 2009. Variable shifts in spring and autumn migration phenology in North American songbirds associated with climate change. Global Change Biology 15:760–771.
24. Van Buskirk, J., Mulvihill, R.S. and Leberman, R.C. 2009. Variable shifts in spring and autumn migration phenology in North American songbirds associated with climate change. Global Change Biology 15:760-771.
25. Van Buskirk, J., Mulvihill, R.S. and Leberman, R.C. 2010. Declining body sizes in North American birds associated with climate change. Oikos 119(6):1047-1055.
26. Van Buskirk, J., Mulvihill, R.S., and Leberman, R.C. 2012. Phenotypic plasticity alone cannot explain climate-induced change in avian migration timing. Ecology and Evolution 2(10):2430-2437.
27. Vitz, A. C., and A. D. Rodewald. 2012. Using stable isotopes to investigate the dietary trophic level of fledgling songbirds. Journal of Field Ornithology 83:73-84.
28. Vitz, A. C., and A. D. Rodewald. 2011. Influence of condition and habitat use on survival of post-fledgling songbirds. The Condor 113:400-411.
29. Vitz, A. C., and A. D. Rodewald. 2010. Movements of fledgling Ovenbirds (*Seiurus aurocapilla*) and Worm-eating Warblers (*Helmitheros vermivorum*) within and beyond the natal home range. The Auk 127:364-371.
30. Vogel, B.R. 1966. Spiders from Powdermill Nature Reserve. Journal of the New York Entomological Society 74:55-58.
31. Vogel, B.R. 1968. Additional Records of Spiders from Western Pennsylvania. Journal of the New York Entomological Society 76(2):101–105.
32. Weaver, J.S., and Sykora, J.L. 1981. Larval Behavior and Dispersion of *Pycnopsyche luculenta* (Betten) Demonstrated by a Unique Tagging Method (Limnephilidae: Trichoptera). In: Moretti G.P. (eds) Proceedings of the Third International Symposium on Trichoptera. Series Entomologica, vol 20. Springer, Dordrecht. <https://doi.org/10.1007/978-94-009-8641-1_49>
33. Wenzel, J.W. 2018. Book Review: Dr. Eleanor’s Book of Common Ants. American Entomologist 64(2):125.
34. Wenzel, J. 2020. Origins of SARS‐CoV‐1 and SARS‐CoV‐2 are often poorly explored in leading publications. Cladistics 36(40):374-379.
35. Wickert, K. L., Metheny, A. M., Davis, D. D., Geiser, D. M., Wenzel, J. W., Planinsek, D., and Kasson, M. T. 2018. First report of fusarium stem canker on *Pyrularia pubera*, a rare native parasitic shrub in forests of southwestern Pennsylvania. Plant disease 102(9): 1852.
36. Wilson, A. M., D. W. Brauning, and R. S. Mulvihill. 2012. Second Atlas of Breeding Birds in Pennsylvania. Penn State Press, University Park, PA.
37. Wilson, A. W., Brauning, D., Carey, C., and Mulvihill, R.S. 2017. Spatial models to account for variation in observer effort in bird atlases. Ecology and Evolution 2017:1-13.
38. Wood, D. S., Leberman, R.C., and WeyeR, D.C. 1986. Checklist of the birds of Belize. Carnegie Museum of Natural History Special Publication No. 12, 24 pp.
39. Wood, D.S. and Leberman, R.C. 1987. Results of the Carnegie Museum of Natural History expeditions to Belize. III. Distributional notes on the birds of Belize. Annals of the Carnegie Museum 56:137-160.
40. Wood, J. D., Knapp, B. O., Muzika, R. M., Stambaugh, M. C., and Gu, L. 2018. The importance

of drought–pathogen interactions in driving oak mortality events in the Ozark Border Region. Environmental Research Letters 13(1):015004.

1. Woodrey, M.S., & C.R. Chandler. 1997. Age-related timing of migration: geographic and interspecific patterns. Wilson Bulletin 109:52-67.
2. Xu, K., 2014. Drivers of herbivore damage on tree seedlings at Powdermill Nature Reserve, PA, USA. Undergraduate Research Thesis, The Ohio State University.
3. Zegers, D.A., Antipas, A.J. and Merritt, J.F. 1986, January. Tree use by *Peromyscus leucopus* in a sugar maple forest. Proceedings of the Pennsylvania Academy of Science 60(1):43-46.
4. Zegers, D.A. and Merritt, J.F. 1988. Adaptations of *Peromyscus* for winter survival in an Appalachian montane forest. Journal of Mammalogy 69(3):516-523.
5. Zegers, D.A. and Merritt, J.F. 1988. Effect of photoperiod and ambient temperature on nonshivering thermogenesis of *Peromyscus maniculatus*. Acta Theriologica 33(19):273-281.

NOTE: To get all the mammal literature, you should do a separate search for JF Merritt and D Zegers and R Rose.