

Department Publications Report
Published Dates: January 1, 2015 - December 31, 2015¹

10002344 - FISHERIES AND WILDLIFE

NOTE: This report is best served to be run on a calendar-year basis.

This is a report of published works by faculty and academic staff with a Primary Appointment in the selected department(s). The publications are unique across departments (e.g., no duplication if a publication is shared among authors).

Published Contributions²	Peer Reviewed/ Refereed³	Non-Peer Reviewed/ Refereed	Total	Contribution Types Included:
Journal Articles	93	7	100	Article, Journal
Other Articles	0	14	14	Article, Magazine/Trade Publication, Article, Newsletter/Brochure/Fact Sheet, Article, Newspaper, Article, Opinion/Editorial, Column (Recurring), Journal, Column (Recurring), Magazine/Trade Publication, Column (Recurring), Newspaper, Manuscript, Newsletter/Brochure/Fact Sheet, Reference Material Entry, Translation, Periodical, USGS Circular
Books	0	0	0	Book, Book, Handbook, Book, Textbook, Translation, Book
Book Chapters	4	1	5	Book, Chapter
Bulletins and Monographs	0	0	0	Bulletin/Monograph
Reviews	0	0	0	Review
Papers for Presentations	5	1	6	Abstract, Conference Paper Published in Proceedings, Conference Proceedings
Reports or Studies	2	13	15	Report, Brief, Policy/Issue/Synthesis, Discussion Paper/Working Paper
Contributions in Other Scholarly Outlets	1	5	6	Arrangement, Blog, Composition, Dataset, Instructor's Manual, Material Regarding New Course/Curricula, Other, Recording, Social Media, Software, Study Guide, Users' Guide/Manual, Website/Web Page, Written Case for Instructional Use
Total	105	41	146	

¹ This report includes publication records with a Date Published in Academic Profile that overlaps with the dates of this report. Records without a Date Published are not included.

² The Published Contributions in bold align with Form D (used for reappointment, promotion, and tenure). The non-bold category includes all other contributions captured by Academic Profile.

³ Publication records in Academic Profile with "Check if this was refereed" populated are counted in the Peer Reviewed/Refereed column.

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Journal Articles

- *He, J. X., Bence, J. R., Madenjian, C. P., Pothoven, S. A., Dobiesz, N. E., Fielder, D. G., Johnson, J. E., Ebener, M. P., Cottrill, A., Mohr, L. C., & Koproski, S. R. (2015). Coupling age-structured stock assessment and fish bioenergetics models: A system of time-varying models for quantifying piscivory patterns during the rapid trophic shift in the main basin of Lake Huron. *Canadian Journal of Fisheries and Aquatic Sciences*, *72*, 7-23.
- *Brenden, T. O., Scribner, K. T., Bence, J. R., Tsehaye Weldemichael, I., Kanefsky, J., Vandergoot, C., & Fielder, D. (2015). Contributions of Lake Erie and Lake St. Clair walleye populations to the Saginaw Bay, Lake Huron recreational fishery: Evidence from genetic stock identification. *North American Journal of Fisheries Management*, *35*, 567-577.
- *Brenden, T. O., Bence, J. R., Liu, W., Tsehaye Weldemichael, I., & Scribner, K. T. (2015). Comparison of the accuracy and consistency of likelihood-based estimation routines for genetic stock identification. *Methods in Ecology and Evolution*, *6*, 817-827. doi: 10.1111/2041-210X.12377
- *Li, Y., Bence, J. R., & Brenden, T. O. (2015). An evaluation of alternative assessment approaches for intermixing fish populations: A case study with Great Lakes lake whitefish. *ICES Journal of Marine Science*, *72*, 70-81.
- *Soranno, P. A., Bissel, E., Cheruvilil, K. S., Christel, S., Collins, S., Fergus, E., Filstrup, C., Lapierre, J.-F., Lottig, N., Oliver, S., Scott, C., Smith, N., Stopyak, S., Bremigan, M. T., Downing, J., Gries, C., Henry, E., Skaff, N., Stanley, E., Stow, C., Tan, P.-N., Wagner, T., & Webster, K. (2015). Building a multi-scaled geospatial temporal ecology database from disparate data sources: Fostering open science and data reuse. *GigaScience*, *4*(28). doi: doi:10.1186/s13742-015-0067-4
- *Soranno, P. A., Cheruvilil, K. S., Wagner, T., Webster, K., & Bremigan, M. T. (2015). The effects of land use on lake nutrients: The importance of scale, hydrologic connectivity, and region. *PlosOne*, *10*(8), e0135454. doi: DOI: 10.1371/journal.pone.0135454
- *Jones, M. L., Brenden, T. O., & Irwin, B. J. (2015). Re-examination of Sea Lamprey control policies for the St. Marys River: Completion of an adaptive management cycle. *Canadian Journal of Fisheries and Aquatic Sciences*, *72*, 1538-1551.
- *Throckmorton, E., Peters, A. K., Brenden, T. O., & Abdel-Kariem, M. F. (2015). Direct and indirect evidence suggests the continuous presence of viral hemorrhagic septicemia virus (genotype IVb) in Budd Lake, Michigan: Management implications. *North American Journal of Fisheries Management*, *35*, 503-511.
- *Winters, A. D., Marsh, T. L., Brenden, T. O., & Abdel-Kariem, M. F. (2015). Analysis of bacterial communities associated with the benthic amphipod, *Diporeia*, in the Laurentian Great Lakes basin. *Canadian Journal of Microbiology*, *61*, 72-81.
- *Vandergoot, C. S., & Brenden, T. O. (2015). Accuracy and precision of fishery and demographic estimates from a spatial tag-recovery model when inter-regional movements are treated as fixed. *Fisheries Research*, *164*, 8-25.
- *Chung-Davidson, Y.-W., Yeh, C. Y., Bussy, U., Li, K., Davidson, P. J., Nanlohy, K. G., Brown, C. T., Whyard, S., & Li, W. (2015). Hsp90 and hepatobiliary transformation during sea lamprey metamorphosis. *BMC Developmental Biology*, *15*, 47. doi: 10.1186/s12861-015-0097-2
- *Ren, J., Chung-Davidson, Y.-W., Yeh, C. Y., Scott, C., Brown, C. T., & Li, W. (2015). Genome-wide analysis of the ATP-binding cassette (ABC) transporter gene family in sea lamprey and Japanese lamprey. *BMC Genomics*, *16*, 436. doi: 10.1186/s12864-015-1677-z
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- *Bryan, M. B., Chung-Davidson, Y.-W., Ren, J., Bowman, S., Scott, A. P., Huertas Pau, M. D. M., Connolly, M. P., & Li, W. (2015). Evidence that progesterins play an important role in spermiation and pheromone production in male sea lamprey (*Petromyzon marinus*). *General and Comparative Endocrinology*, 212, 17-27. doi: 10.1016/j.ygcen.2015.01.008, ISSN: 0016-6480
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- *Bussy, U., Wang, H., Chung-Davidson, Y.-W., & Li, W. (2015). Simultaneous determination of gonadotropin-inhibitory and gonadotropin-releasing hormones using ultra-high performance liquid chromatography electrospray ionization tandem mass spectrometry. *Analytical and Bioanalytical Chemistry*, 407(2), 497-507. doi: 10.1007/s00216-014-8214-9, ISSN: 1618-2642
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- *Solomon, J., Gavin, M., & Gore, M. L. (2015). Detecting and understanding non-compliance with conservation rules. *Biological Conservation*, 189, 1-4.
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- *Hume, J. B., Meckley, T. D., Luhring, T. M., Siefkes, M. J., & Wagner, M. (2015). The application of an alarm cue in a push-pull configuration hastens arrival of invasive sea lamprey (*Petromyzon marinus*) at a trapping location. *Canadian Journal of Fisheries and Aquatic Sciences*, 72(12), 1799-1806. doi: 10.1139/cjfas-2014-0535
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- *Carlson, A., Taylor, W. W., Schlee, K., Zorn, T., & Infante, D. M. (2015). Projected impacts of climate change on stream salmonids with implications for resilience-based management. *Ecology of Freshwater Fish*.
- *Smith, S. D. P., McIntyre, S. B., Halpern, B. S., Cooke, R. M., Marino, A. L., Boyer, G. L., Buchsbaum, A., Burton Jr., G. A., Campbell, L. M., Ciborowski, J. H., Doran, P. J., Infante, D. M., Johnson, L. B., Read, J. G., Rose, J. B., Rutherford, E. S., Steinman, A. D., & Allan, J. D. (2015). Rating impacts in a multi-stressor world: A quantitative assessment of 50 stressors affecting the Great Lakes. *Ecological Applications*, *25*, 717-728.
- *Tsehaye Weldemichael, I., Jones, M. L., Irwin, B. J., Fielder, D. G., Breck, J. E., & Luukkonen, D. R. (2015). A predictive model to inform adaptive management of double-crested cormorants and fisheries in Michigan. *Natural Resource Modeling*, *28*, 348-376.
- *Myers, J. T., Yule, D. L., Jones, M. L., Ahrenstorff, T. D., Hrabik, T. R., Claramunt, R. M., Ebener, M. P., & Berglund, E. K. (2015). Spatial synchrony in cisco recruitment. *Fisheries Research*, *165*, 11-21.
- *Potts, D. D., Dawson, H. A., & Jones, M. L. (2015). Validation of a relationship between statolith size and age of larval Great Lakes sea lampreys (*Petromyzon marinus*). *Environmental Biology of Fishes*, *98*, 1859-1869.
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- *Li, K., Buchinger, T. J., Bussy, U., Fissette, S. D., Johnson, N. S., & Li, W. (2015). Quantification of 15 bile acids in lake charr feces by ultra-high performance liquid chromatography-tandem mass spectrometry. *Journal of Chromatography B, Analytical Technologies in the Biomedical and Life Sciences*, *1001*, 27-34. doi: 10.1016/j.jchromb.2015.07.028, ISSN: 1570-0232
- *Brant, C. O., Li, K., Johnson, N. S., & Li, W. (2015). A pheromone outweighs temperature in influencing migration of sea lamprey. *Royal Society open science*, *2*(5), 150009. doi: 10.1098/rsos.150009
- *Johnson, N. S., Siefkes, M. J., Wagner, M., Bravener, G., Steeves, T., Twohey, M., & Li, W. (2015). Factors Influencing Capture of Invasive Sea Lamprey in Traps Baited With a Synthesized Sex Pheromone Component. *Journal of chemical ecology*, *41*(10), 913-23. doi: 10.1007/s10886-015-0626-2, ISSN: 0098-0331
- *Ren, J., Pu, J., Buchinger, T. J., Zhu, X., Baker, C., & Li, W. (2015). The mitogenomes of the pouched lamprey (*Geotria australis*) and least brook lamprey (*Lampetra aepyptera*) with phylogenetic considerations. *Mitochondrial DNA*, 1-3. doi: 10.3109/19401736.2015.1074218, ISSN: 1940-1736
- *Li, K., Brant, C. O., Bussy, U., Pinnamaneni, H., Patel, H., Hoyer, T. R., & Li, W. (2015). Iso-petromyroxols: Novel dihydroxylated tetrahydrofuran enantiomers from sea lamprey (*Petromyzon marinus*). *Molecules (Basel, Switzerland)*, *20*(3), 5215-5222. doi: 10.3390/molecules20035215
- *Johnson, N. S., Tix, J. A., Hlina, B. L., Wagner, M., Siefkes, M. J., Wang, H., & Li, W. (2015). A Sea Lamprey (*Petromyzon marinus*) Sex Pheromone Mixture Increases Trap Catch Relative to a Single Synthesized Component in Specific Environments. *Journal of chemical ecology*, *41*(3), 311-21. doi: 10.1007/s10886-015-0561-2, ISSN: 0098-0331
- *Buchinger, T. J., Siefkes, M. J., Zielinski, B. S., Brant, C. O., & Li, W. (2015). Chemical cues and pheromones in the sea lamprey (*Petromyzon marinus*). *Frontiers in Zoology*, *12*, 32. doi: 10.1186/s12983-015-0126-9
- *Zhao, Z., & Liu, J. (2015). Exploring spatially variable relationships between NDVI and climatic factors in a transition zone using geographically weighted regression. *Theoretical and Applied Climatology*, *120*, 507-519.

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- *Liu, J., Hull, V. K., Luo, J., Yang, W., Liu, W., Vina, A., Vogt, C. A., Xu, Z., Yang, H., Zhang, J., An, L., Chen, X., Li, S., Ouyang, Z., Xu, W., & Zhang, H. (2015). Multiple telecouplings and their complex interrelationships. *ECOLOGY AND SOCIETY*, 20(3). doi: 10.5751/ES-07868-200344, ISSN: 1708-3087
- *Liu, J., Mooney, H., Hull, V. K., Davis, S., Gaskell, J., Hertel, T., Lubchenco, J., Seto, K., Gleick, P., Kremen, C., & Li, S. (2015). Systems integration for global sustainability. *Science*, 347, 1258832. Retrieved from DOI: 10.1126/science.1258832
- *Van Vliet, D., Loch, T. P., & Abdel-Kariem, M. F. (2015). Flavobacterium psychrophilum Infections in Salmonid Broodstock and Hatchery-Propagated Stocks of the Great Lakes Basin. *Journal of aquatic animal health*, 27(4), 192-202. doi: 10.1080/08997659.2015.1088488, ISSN: 0899-7659
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- *Emond-Rheault, J. G., Vincent, A. T., Trudel, M. V., Brochu, F., Boyle, B., Tanaka, K. H., Att  r  , S. A., Jubinville,   ., Loch, T. P., Winters, A. D., Abdel-Kariem, M. F., Frenette, M., Derome, N., & Charette, S. J. (2015). Variants of a genomic island in Aeromonas salmonicida subsp. salmonicida link isolates with their geographical origins. *Veterinary microbiology*, 175(1), 68-76. doi: 10.1016/j.vetmic.2014.11.014, ISSN: 0378-1135
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- *Keller, B. J., Montgomery, R. A., Campa, H., Beyer, D. E., Winterstein, S., Hansen, L. P., & Millspaugh, J. J. (2015). A review of vital rates and cause-specific mortality of elk (Cervus elaphus) in Eastern North America. *Mammal Review*, 45, 146-159.
- *Moll, R. J., Killion, A., Montgomery, R. A., Hayward, M. W., & Tambling, C. (2015). Evaluating broad scale patterns in ungulate group formation in relation to carnivore occurrence and predation risk. *Ecology*.
- *Petrunenko, Y., Montgomery, R. A., Miquelle, D., & MacDonald, D. W. (2015). Primary prey density and landscape vulnerability shape patterns of habitat use within the home range for Amur tigers.
- *Millspaugh, J. J., Rittenhouse, C. D., Montgomery, R. A., Matthews, W. S., & Slotow, R. (2015). Resource selection modeling reveals potential conflicts involving reintroduced lion (Panthera leo) in Tembe Elephant Park, South Africa. *Journal of Zoology*, 296, 124-132.
- *Armstrong, B. M., Lazorchak, J. M., Murphy, C. A., Haring, H. J., Jensen, K., & Smith, M. E. (2015). Determining the effects of a mixture of an endocrine disrupting compound, 17  ethinylestradiol, and ammonia on fathead minnow (Pimephales promelas). *Chemosphere*, 120, 108-114.
- *Groh, K. J., Carvalho, R. N., Chipman, J. K., Denslow, N. D., Halder, M., Murphy, C. A., Roelofs, D., Rolaki, A., Schirmer, K., & Watanabe, K. H. (2015). Development and application of the adverse outcome pathway framework for understanding and predicting chronic toxicity: I. Challenges and research needs in ecotoxicology. *Chemosphere*, 120, 764-777.
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- *Miehls, A. A.L., Peacor, S. D., Valliant, L., & McAdam, A. G. (2015). Evolutionary stasis despite selection on a heritable trait in an invasive zooplankton. *Journal of Evolutionary Biology*, 28, 1091-1102.

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- *Bourdeau, P. E., Pangle, K. L., & Peacor, S. D. (2015). Factors affecting the vertical distribution of the zooplankton assemblage in Lake Michigan: the role of the invasive predator *Bythotrephes longimanus*. *Journal of Great Lakes Research*, 41(Supplement 3), 114-124.
- *Jarzyna, M., Porter, W. F., Maurer, B. A., Zuckerberg, B., & Finley, A. O. (2015). Landscape fragmentation affects responses of avian communities to climate change. *Global Change Biology*, 21(8), 2942-2953.
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- *Linden, D., & Roloff, G. J. (2015). Improving inferences from short-term ecological studies with Bayesian hierarchical modeling: white-headed woodpeckers in managed forests. *Ecology and Evolution*.
- *Eakin, C., Campa, H., Linden, D., Roloff, G. J., Rowe, D. B., & Westphal, J. M. (2015). Avian response to green roofs in urban landscapes in the Midwestern United States. *Wildlife Society Bulletin*, 39(3), 574-582.
- *Weiss, P. T. G. A., Urquhart, G. R., Ruiz Galeano, M., & Rose, J. B. (2015). Well water quality in rural Nicaragua using a low-cost bacterial test and microbial source tracking. *Journal of Water and Health*. doi: 10.2166/wh.2015.075
- Ng, C., Le, T. H., Goh, S. G., Liang, L., Kim, Y., Rose, J. B., & Karina, G. Y. (2015). A comparison of microbial water quality and diversity for ballast and tropical harbor waters. *Plos One*, 10(e0143123).
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- *Gaeta, J. W., Hrabik, T. R., Sass, G. G., Roth, B. M., Gilbert, S. J., & Vander Zanden, M. J. (2015). A whole-lake experiment to control invasive rainbow smelt (*Actinopterygii*, *Osmeridae*) via overharvest and a food web manipulation. *Hydrobiologia*, 746, 433-444.
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