

Department Publications Report
Published Dates: January 1, 2017 - December 31, 2017¹

FISHERIES AND WILDLIFE

Published Contributions ²	Peer Reviewed/ Refereed ³	Non-Peer Reviewed/ Refereed	Total	Contribution Types Included:
Journal Articles	106	11	117	Article, Journal
Other Articles	0	4	4	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	9	1	10	Book, Chapter
Bulletins and Monographs	0	1	1	Bulletin/Monograph
Reviews	0	0	0	Review
Papers for Presentations	2	0	2	Abstract, Conference Paper Published in Proceedings, Conference Proceedings
Reports or Studies	0	4	4	Report, Brief, Policy/Issue/Synthesis, Discussion Paper/Working Paper
Contributions in Other Scholarly Outlets	3	7	10	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	120	28	148	

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

- *Clark, R. D., Bence, J. R., Claramunt, R. M., Clevenger, J. A., Cornis, M. S., & Bronte, C. R. (2017). Changes in movements of Chinook Salmon between Lakes Huron and Michigan after Alewife population collapse. *North American Journal of Fisheries Management*, 37, 1311-1331.
- *Li, Y., Bence, J. R., Zhang, Z., & Ebener, M. P. (2017). Why do lake whitefish move long distances in Lake Huron? Bayesian variable selection of factors explaining fish movement distance. *Fisheries Research*, 195, 169-179.
- *Truesdell, S. B., Bence, J. R., Syslo, J. M., & Ebener, M. (2017). Estimating multinomial effective sample size in catch-at-age and catch-at-size models. *Fisheries Research*, 192, 66-83.
- *Vincent, M. T., Brenden, T. O., & Bence, J. R. (2017). Simulation testing the robustness of a multi-region tag-integrated assessment model that exhibits natal homing and estimates natural mortality and reporting rate. *Canadian Journal of Fisheries and Aquatic Sciences*, 74, 1930-1949.
- *Vidal, T. E., Irwin, B. J., Wagner, T., Rudstrom, L. G., Bence, J. R., & Jackson, J. R. (2017). Using variance structure of fish catches to quantify responses to perturbation. *Ecological Applications*, 146, 584-593.
- *Stevens, B. S., Bence, J. R., Porter, W. F., & Jones, M. L. (2017). Identifying target reference points for harvesting assessment-limited wildlife populations: a case study. *Ecological Applications*, 27(6), 1916-1931.
- *Stevens, B. S., Bence, J. R., Porter, W. F., & Parent, C. J. (2017). Structural uncertainty limits generality of fall harvest strategies for wild turkeys. *Journal of Wildlife Management*, 81, 617-628. doi: 10.1002/jwmg.21228
- Buchinger, T. J., Marsden, J. E., Binder, T. R., Huertas, M., Bussy, U., Li, K., Hanson, J. E., Krueger, C. C., Li, W., & Johnson, N. S. (2017). Temporal constraints on the potential role of fry odors as cues of past reproductive success for spawning lake trout. *ECOLOGY AND EVOLUTION*, 7(23), 10196-10206. doi: 10.1002/ece3.3546, ISSN: 2045-7758
- Buchinger, T. J., Marsden, J. E., Binder, T. R., Huertas, M., Bussy, U., Li, K., Hanson, J. E., Krueger, C. C., Li, W., & Johnson, N. S. (2017). Temporal constraints on the potential role of fry odors as cues of past reproductive success for spawning lake trout. *Ecology and evolution*, 7(23), 10196-10206. doi: 10.1002/ece3.3546
- *Soranno, P. A., Bacon, L. C., Beauchene, M., Bednar, K. E., Bissell, E. G., Boudreau, C. K., Boyer, M. G., Bremigan, M. T., Carpenter, S. R., Carr, J. W., Cheruvilil, K. S., Christel, S. T., Claucherty, M., Collins, S. M., Conroy, J. D., Downing, J. A., Dukett, J., Fergus, C. E., Filstrup, C. T., Funk, C., Gonzalez, M. J., Green, L. T., Gries, C., Halfman, J. D., Hamilton, S. K., Hanson, P. C., Henry, E. N., Herron, E. M., Hockings, C., Jackson, J. R., Jacobson-Hedin, K., Janus, L. L., Jones, W. W., Jones, J. R., Keson, C. M., King, Katelyn B. S., Kishbaugh, S. A., Lapierre, J.-F., Lathrop, B., Latimore, J. A., Lee, Y., Lottig, N. R., Lynch, J. A., Matthews, L. J., McDowell, W. H., Moore, Karen E. B., Neff, B. P., Nelson, S. J., Oliver, S. K., Pace, M. L., Pierson, D. C., Poisson, A. C., Pollard, A. I., Post, D. M., Reyes, P. O., Rosenberry, D. O., Roy, K. M., Rudstam, L. G., Sarnelle, O., Schuldt, N. J., Scott, C. E., Skaff, N. K., Smith, N. J., Spinelli, N. R., Stachelek, J. J., Stanley, E. H., Stoddard, J. L., Stopyak, S. B., Stow, C. A., Tallant, J. M., Tan, P.-N., Thorpe, A. P., Vanni, M. J., Wagner, T., Watkins, G., Weathers, K. C., Webster, K. E., White, J. D., Wilmes, M. K., & Yuan, S. (2017). LAGOS-NE: a multi-scaled geospatial and temporal database of lake ecological context and water quality for thousands of US lakes. *GIGASCIENCE*, 6(12). doi: 10.1093/gigascience/gix101, ISSN: 2047-217X
- *Schulz, C. A., Murphy, C. A., Brenden, T. O., Loch, T. P., & Abdel-Kariem, M. F. (2017). Detection accuracy of *Renibacterium salmoninarum* in Chinook salmon, *Oncorhynchus tshawytscha* (Walbaum) from non-lethally collected samples: Effects of exposure route and disease severity. *Preventive Veterinary Medicine*, 145, 110-120.
- *Sitar, S. P., Brenden, T. O., He, J. X., & Johnson, J. E. (2017). Recreational postrelease mortality of lake trout in Lakes Superior and Huron. *North American Journal of Fisheries Management*, 37, 789-808.

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- *Cooper, A. R., Infante, D. M., Daniel, W. M., Wehrly, K. E., Wang, L., & Brenden, T. O. (2017). Assessment of dam effects on streams and fish assemblages of the conterminous U.S.A. *Science of the Total Environment*, 586, 879-889.
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- *Millard, E. V., LaPatra, S. E., Brenden, T. O., Bourke, A. M., Fitzgerald, S. D., & Abdel-Kariem, M. F. (2017). DNA vaccination partially protects muskellunge against viral hemorrhagic septicemia virus (VHSV-IVb). *Journal of Aquatic Animal Health*, 29, 50-56.
- *Throckmorton, E., Brenden, T. O., Peters, A. K., Newcomb, T., Whelan, G., & Abdel-Kariem, M. F. (2017). Potential reservoirs and risk factors for VHSV IVb in an enzootic system: Budd Lake, Michigan, United States. *Journal of Aquatic Animal Health*, 29(1), 31-42.
- *Kraus, R. T., Vandergoot, C. S., Kocovsky, P. M., Rogers, M. W., Cook, H. A., & Brenden, T. O. (2017). Reconciling walleye catch differences from multiple fishery independent gill net surveys in Lake Erie. *Fisheries Research*, 188, 17-22.
- *Johnson, N. S., Swink, W. D., & Brenden, T. O. (2017). Field study suggests that sex determination in sea lamprey is directly influenced by larval growth rate. *Proceedings of the Royal Society B*, 284, 20170262.
- *Bussy, U., Chung-Davidson, Y.-W., Buchinger, T. J., Li, K., & Li, W. (2017). High-sensitivity determination of estrogens in fish plasma using chemical derivatization upstream UHPLC-MSMS. *STEROIDS*, 123, 13-19. doi: 10.1016/j.steroids.2017.04.003, ISSN: 0039-128X
- Buchinger, T. J., Bussy, U., Buchinger, E. G., Fissette, S. D., Li, W., & Johnson, N. S. (2017). Increased pheromone signaling by small male sea lamprey has distinct effects on female mate search and courtship. *BEHAVIORAL ECOLOGY AND SOCIOBIOLOGY*, 71(10). doi: 10.1007/s00265-017-2384-3, ISSN: 0340-5443
- *Bussy, U., Chung-Davidson, Y.-W., Li, K., Fissette, S. D., Buchinger, E. G., & Li, W. (2017). A validated LC-MS/MS method for thyroid hormone determination in sea lamprey (*Petromyzon marinus*) plasma, gill, kidney and liver. *JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES*, 1041, 77-84. doi: 10.1016/j.jchromb.2016.12.024, ISSN: 1570-0232
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- *Sternner, R. W., Ostrom, N. E., Klump, J. V., Steinman, A. D., Dreelin, E. A., Vander Zanden, M. J., & Fisk, A. T. (2017). Grand challenges for research in the Laurentian Great Lakes. *Limnology & Oceanography*, 62(6), 2510–2523. doi: 10.1002/lno.10585
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- *Carlson, A., Hartikainen, K., Infante, D. M., Beard, T. D., Lynch, A. J., & Taylor, W. W. (2017). Comparing stream-specific to generalized temperature models to guide coldwater salmonid management in a changing climate. *Reviews in Fish Biology and Fisheries*, 443-462.
- *Paukert, C. P., Lynch, A. J., Beard, T. D., Chen, Y., Cooke, S. J., Cooperman, M. S., Cowx, I., Ibengwe, L., Infante, D. M., Myers, B. J., Hoa, N. P., & Winfield, I. J. (2017). Designing a global assessment of climate change on inland fish and fisheries: knowns and needs. *Reviews in Fish Biology and Fisheries*.
- *Foley, M. M., Magilligan, F. J., Torgersen, C. E., Major, J. J., Anderson, C. W., Connolly, P. J., Wiewerich, D., Shafroth, P. B., Evans, J. E., & Infante, D. M. (2017). Landscape context and the biophysical response of rivers to dam removal in the United States. *PLOS One*.
- *Fetzer, W. W., Roth, B. M., Infante, D. M., Clapp, D. F., Claramunt, R. M., Fielder, D. G., He, J., Newcomb, T. J., & Zorn, T. G. (2017). Spatial and temporal dynamics of nearshore fish communities in Lake Michigan and Lake Huron. *Journal of Great Lakes Research*, 319-334.
- *Taylor, W. W., Lynch, A. J., Cooke, S. J., Beard Jr., T. D., Kao, Y.-C., Lorenzen, K., Song, A. M., Allen, M. S., Basher, Z., Bunnell, D. B., Camp, E. V., Cowx, I. G., Freedman, J. A., Nguyen, V. M., Nohner, J. K., Rogers, M. W., Siders, Z. A., & Youn, S. (2017). Grand challenges in the management and conservation of North American Inland fish and fisheries. *Fisheries*.
- Li, K., Scott, A. M., Brant, C. O., Fissette, S. D., Riedy, J. J., Hoye, T. R., & Li, W. (2017). Bile Salt-like Dienones Having a Novel Skeleton or a Rare Substitution Pattern Function as Chemical Cues in Adult Sea Lamprey. *ORGANIC LETTERS*, 19(17), 4444-4447. doi: 10.1021/acs.orglett.7b01921, ISSN: 1523-7060
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- Schmucker, A. K., Johnson, N. S., Galbraith, H. S., & Li, W. (2017). An evaluation of silver-stage American Eel conspecific chemical cueing during outmigration. *ENVIRONMENTAL BIOLOGY OF FISHES*, 100(7), 851-864. doi: 10.1007/s10641-017-0611-4, ISSN: 0378-1909
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- *Green, W. W., Boyes, K., McFadden, C., Daghfous, G., Auclair, F., Zhang, H., Li, W., Dubuc, R., & Zielinski, B. S. (2017). Odorant organization in the olfactory bulb of the sea lamprey. *The Journal of Experimental Biology*, 220(7), 1350-1359. Retrieved from <http://dx.doi.org/10.1242/jeb.150466> doi: 10.1242/jeb.150466, ISSN: 0022-0949
- *Bussy, U., Wassink, L., Scribner, K. T., & Li, W. (2017). Determination of cortisol in lake sturgeon (*Acipenser fulvescens*) eggs by liquid chromatography tandem mass spectrometry. *Journal of Chromatography B*, 1040, 162-168. Retrieved from <http://dx.doi.org/10.1016/j.jchromb.2016.11.028> doi: 10.1016/j.jchromb.2016.11.028, ISSN: 1570-0232
- *Baker, C., Jellyman, D., Reeve, K., Crow, S., Stewart, M., Buchinger, T. J., & Li, W. (2017). First observations of spawning nests in the pouched lamprey *Geotria australis*. *Canadian Journal of Fisheries and Aquatic Sciences*, 74(10), 1603-1611. Retrieved from <http://dx.doi.org/10.1139/cjfas-2016-0292> doi: 10.1139/cjfas-2016-0292, ISSN: 0706-652X
- *Tonini, F., & Liu, J. (2017). Telecoupling Toolbox: Spatially explicit tools for studying telecoupled human and natural systems. *Ecology and Society*, 22(4), Art11.
- *Chen, X., Lupi, F., & Liu, J. (2017). Accounting for ecosystem services in compensating for the costs of effective conservation in protected areas. *Biological Conservation*, 215, 233-240.

* Identifies peer-reviewed publications.

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- *Xu, Z., Tang, Y., Connor, T., Li, D., Li, Y., & Liu, J. (2017). Climate variability and trends at a national scale. *SCIENTIFIC REPORTS*, 7. doi: 10.1038/s41598-017-03297-5, ISSN: 2045-2322
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- *Zhang, J., Hull, V. K., Ouyang, Z., Li, R., Connor, T., Yang, H., Zhang, Z., Silet, B., Zhang, H., & Liu, J. (2017). Divergent responses of sympatric species to livestock encroachment at fine spatiotemporal scales. *BIOLOGICAL CONSERVATION*, 209, 119-129. doi: 10.1016/j.biocon.2017.02.014, ISSN: 0006-3207
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- *Vina, A., & Liu, J. (2017). Hidden roles of protected areas in the conservation of biodiversity and ecosystem services. *ECOSPHERE*, 8(6). doi: 10.1002/ecs2.1864, ISSN: 2150-8925
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- *Zhang, J., Hull, V. K., Ouyang, Z., He, L., Connor, T., Yang, H., Huang, J., Zhou, S., Zhang, Z., Zhou, C., Zhang, H., & Liu, J. (2017). Modeling activity patterns of wildlife using time-series analysis. *ECOLOGY AND EVOLUTION*, 7(8), 2575-2584. doi: 10.1002/ece3.2873, ISSN: 2045-7758
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- *Xu, W., Vina, A., Kong, L., Pimm, S. L., Zhang, J., Yang, W., Xiao, Y., Zhang, L., Chen, X., Liu, J., & Ouyang, Z. (2017). Reassessing the conservation status of the giant panda using remote sensing. *NATURE ECOLOGY & EVOLUTION*, 1(11), 1635-1638. doi: 10.10138/s41559-017-0317-1, ISSN: 2397-334X
- *Liu, J., Calmon, M., Clewell, A., & Liu, J. (2017). South-south cooperation for large-scale ecological restoration. *Restoration Ecology*, 25, 27-32.
- *Xu, W., Zhang, J., Yang, W., Zhang, L., Wang, Z., Zheng, H., & Liu, J. (2017). Strengthening Protected Areas for Biodiversity and Ecosystem Services in China. *PNAS*, 114, 1601-1606.
- *Sun, J., Tong, Y., & Liu, J. (2017). Telecoupled land-use changes in distant countries. *Journal of Integrative Agriculture*, 16, 368-376.
- *Hulina, J. T., Bocetti, C., Campa, H., Hull, V., Yang, W., & Liu, J. (2017). Telecoupling framework for research on migratory species in the Anthropocene. *Elementa Science of the Anthropocene*, 5. doi: <https://doi.org/10.1525/elementa.184>.
- *Kramer, D. B., Hartter, J., Boag, A. E., Jain, M., Stevens, K., Nicholas, K. A., McConnell, W. J., & Liu, J. (2017). Top 40 questions in coupled human and natural systems (CHANS) research. *ECOLOGY AND SOCIETY*, 22(2). doi: 10.5751/ES-09429-220244, ISSN: 1708-3087
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- *Cuthbertson, C. A., Albrecht, D. E., & Loveridge, S. T. (2017). Rural versus urban perspectives on behavioral health issues and priorities. *Community Development*, 48(4), 515-526.
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- *Cuthbertson, C. A., Newkirk, C. J., Ilardo, J. L., Loveridge, S. T., & Skidmore, M. L. (2017). Angry, scared, and unsure: Mental health consequences of contaminated water in Flint, Michigan. *Journal of Urban Health*, 93(6), 899-908. Retrieved from <http://rdcu.be/miyu> doi: 10.1007/s11524-016-0089-y
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