

Mark Vinson's Publications, last updated 27 December 2019

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Journal articles, book chapters, and book editor

1. Rosinski, C.L., M.R. Vinson, and D.L. Yule. In press 2020. Niche partitioning among native Ciscoes (*Coregonus* spp.) and non-native Rainbow Smelt *Osmerus mordax* in Lake Superior. Transactions of the American Fisheries Society.
2. Vinson, M.R., L. Chavarie, C.L. Rosinski, H.K. Swanson. In press 2020. Trophic Ecology. Book chapter in Lake Charr *Salvelinus namaycush*: Biology, Ecology, Distribution, and Management. Edited by A. Muir, M. Hansen, S. Riley, C. Krueger. Springer Fish & Fisheries Series – Series Ed.: D. Noakes.
3. L. Chavarie, J. Hoffmann, A.M. Muir, C.C. Krueger, C.R. Bronte, K.L. Howland, C. Gallagher, S.P. Sitar, M.J. Hansen, M.R. Vinson, L.L. Loseto, W. Tonn, and H. Swanson. 2019. Dietary vs non-dietary fatty acid profiles of lake trout morphs from Lake Superior and Great Bear Lake: Are fish really what they eat? bioRxiv 714352. doi: <http://dx.doi.org/10.1101/714352>.
4. Weidel, B., J. Hoyle, M. Connerton, J. Holden, and M. Vinson. 2019. Lake Ontario cisco dynamics based on long-term surveys. Proceedings of the 13th International Coregonid Symposium, Ashland WI. Special issue, Advances in Limnology.
5. Lepak, T. A., D.H. Ogle, M.R. Vinson. 2017. Age, Year-Class Strength Variability, and Partial Age Validation of Kiyis from Lake Superior. North American Journal of Fisheries Management, 37:1151-1160, <http://onlinelibrary.wiley.com/doi/10.1080/02755947.2017.1350222/full>
6. Stewart, T.R. D.H. Ogle, O.T. Gorman, M.R. Vinson. 2015. Age, growth, and size of Lake Superior Pygmy Whitefish (*Prosopium coulteri*) in 2013. American Midland Naturalist 175:24-36. <https://bioone.org/journals/The-American-Midland-Naturalist/volume-175/issue-1/amid-175-01-24-36.1/Age-Growth-and-Size-of-Lake-Superior-Pygmy-Whitefish-Prosopium/10.1674/amid-175-01-24-36.1.full>
7. K. M. Keeler, D.B. Bunnell, J.S. Diana, J.V. Adams, J.G. Mychek-Londer, D.M. Warner, D.L. Yule, and M.R. Vinson. 2015. Evaluating the importance of abiotic and biotic drivers of *Bythotrephes* biomass in Lakes Superior and Michigan. Journal of Great Lakes Research 41:150-160, <https://www.sciencedirect.com/science/article/pii/S0380133015001483>.
8. Vinson, M.R., B. Hestmark, M.E. Barkworth. 2014. Hydrologic alteration affects aquatic plant assemblages in an arid-land river. Southwestern Naturalist 59:478-486. <http://www.bioone.org/doi/abs/10.1894/JEM-04.1>.
9. Vinson, M.R. and T.R. Angradi. 2014. Muskie lunacy: does the lunar cycle influence angler catch of muskellunge (*Esox masquinongy*)? PLOS ONE 9.5: e98046. <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0098046>.
10. Yurista, P.M. D.L. Yule, M. Balge, J.D. VanAlstine, J.A. Thompson, A.E. Gamble, T.R. Hrabik, J.R. Kelly, J.D. Stockwell, and M.R. Vinson. 2014. A new look at the Lake Superior biomass size-spectrum. Canadian Journal of Fisheries and Aquatic Sciences 71:1324-1333, <http://www.nrcresearchpress.com/doi/abs/10.1139/cjfas-2013-0596#.V3U8jvkrK70>.
11. Brunk, K.M., M.R. Vinson, D.H. Ogle, and L.M. Evrard. 2014. Burrowing mayfly populations in Chequamegon Bay, Wisconsin: 2002 and 2012. Journal of Freshwater Ecology 29:337-344. <http://dx.doi.org/10.1080/02705060.2014.896294>.
12. Yule, D.L., J.V. Adams, T.R. Hrabik, M.R. Vinson, Z. Woiak, and T.D. Ahrenstorff. 2013. Use of classification trees to apportion single echo detections to species: application to the pelagic fish community of Lake Superior. Fisheries Research 140:123– 132. <https://www.sciencedirect.com/science/article/pii/S0165783612003566>.

13. Finlayson, B., W.L. Somer, and M.R. Vinson. 2011. Rotenone toxicity to rainbow trout and several mountain stream insects: response to comment. *North American Journal of Fisheries Management* 32:60-64. <https://www.tandfonline.com/doi/abs/10.1080/02755947.2012.655846>.
14. Vinson, M.R. and T.R. Angradi. 2011. Stomach emptiness in fishes: sources of variation and study design implications. *Reviews in Fishery Science* 19:63-73. <https://www.tandfonline.com/doi/abs/10.1080/10641262.2010.536856>.
15. Vinson, M.R. and P. Budy. 2011. Sources of variability and comparability between salmonid stomach contents and isotopic analyses: study design lessons and recommendations. *Canadian Journal of Fisheries and Aquatic Sciences* 68:137-151. <http://www.nrcresearchpress.com/doi/abs/10.1139/f10-117>.
16. Vinson, M.R. 2011. Returning salmonflies to the Logan River. Pages 29-33 in *Wading for Bugs: Exploring streams with the experts*. Oregon State University Press, Corvallis. <https://muse.jhu.edu/book/11173>
17. Gorman, O.T., M.P. Ebener, and M.R. Vinson [EDS.]. 2010. The state of Lake Superior in 2005. Great Lakes Fishery Commission Special Publication 10-01. http://glfc.org/pubs/SpecialPubs/Sp10_1.pdf
18. Vinson, M.R. 2010. Percent of water bodies in rangeland areas with significant changes in aquatic biota assemblage composition. Pages 39-40 in Mitchell, J.E. (ed.). *Criteria and Indicators of Sustainable Rangeland Management*. Society of Rangeland Management Monograph. Laramie, WY: University of Wyoming Extension Publication No. SM-56. 227 p.
19. One of 11 authors. 2010. Criterion I: Soil and water conservation on rangelands. Pages 25-75 in Mitchell, J.E. (ed.). *Criteria and Indicators of Sustainable Rangeland Management*. Society of Rangeland Management Monograph. Laramie, WY: University of Wyoming Extension Publication No. SM-56. 227 p.
20. Vinson, M.R. and E.P. Dinger. 2010. Aquatic invertebrates of the Grand Staircase-Escalante National Monument. Pages 104-115 in *Learning from the Land Grand Staircase-Escalante National Monument*. Escalante, Utah.
21. Caires, A., M.R. Vinson, A. Brazer. 2010. Impacts of slot canyon hikers on aquatic invertebrate assemblages in the North Fork of the Virgin River, Utah. *Southwestern Naturalist* 55:551-557. <https://bioone.org/journals/The-Southwestern-Naturalist/volume-55/issue-4/JS-33.1/Impacts-of-Hikers-on-Aquatic-Invertebrates-in-the-North-Fork/10.1894/JS-33.1.full>
22. Hamilton, B.T., S.E. Moore, T.B. Williams, N. Darby, and M.R. Vinson. 2010. Comparative effects of rotenone and antimycin on benthic macroinvertebrate diversity in two streams in Great Basin National Park, Nevada: response to comment. *North American Journal of Fisheries Management* 30:1129-1131. <https://www.tandfonline.com/doi/abs/10.1577/M10-026.1>
23. Vinson, M.R., E.C. Dinger, and D.K. Vinson. 2010. Piscicides and invertebrates: after 70 years, does anyone really know? *Fisheries* 35:61-71. <https://www.tandfonline.com/doi/abs/10.1577/1548-8446-35.2.61>
24. Finlayson, B., Somer, W.L., and M.R. Vinson. 2010. Rotenone toxicity to rainbow trout and several mountain stream insects. *North American Journal of Fisheries Management* 30:102-111. <https://www.tandfonline.com/doi/abs/10.1577/M09-078.1>
25. Sepulveda, A.J., W.T. Collier, W.H. Lowe, and M.R. Vinson. 2009. Using nitrogen stable isotopes to detect long-distance movement in a threatened cutthroat trout (*Oncorhynchus clarkii utah*). *Canadian Journal of Fisheries and Aquatic Sciences* 66:672-682. <https://www.nrcresearchpress.com/doi/full/10.1139/f09-020#.XgZZaldKiUk>
26. Vinson, M.R., E.C. Dinger, J. Kotynek, and M. Dethier. 2008. Effects of oil pollution on aquatic macroinvertebrate assemblages in Gabon wetlands. *African Journal of Aquatic Science* 33:261-268. <https://www.tandfonline.com/doi/abs/10.2989/AJAS.2008.33.3.9.621>
27. Vinson, M.R. and E.P. Dinger. 2008. Aquatic invertebrates of the Grand Staircase-Escalante National Monument. *Southwestern Naturalist* 53:374-384. <https://bioone.org/journals/The->

Southwestern-Naturalist/volume-53/issue-3/JS-20.1/Aquatic-Invertebrates-Of-the-Grand-StaircaseEscalante-National-Monument-Utah/10.1894/JS-20.1.full

28. Vinson, M.R. and M.A. Baker. 2008. Poor growth of North American rainbow trout (*Oncorhynchus mykiss*) fed New Zealand mud snail (*Potamopyrgus antipodarum*). North American Journal of Fisheries Management 28:701-709.
<https://www.tandfonline.com/doi/abs/10.1577/M06-039.1>
29. Schultheis, A.S., J.Y. Booth, M.R. Vinson, M.P. Miller. 2008. Genetic evidence for cohort splitting in the merovoltine stonefly *Pteronarcys californica* (Newport) in Blacksmith Fork, Utah. Aquatic Insects 30: 187-185.
<https://www.tandfonline.com/doi/abs/10.1080/01650420801971350>
30. Brindza, C. and M.R. Vinson. 2004. The hyporheic invertebrate fauna of northern Utah. Western North American Naturalist 64:131-134.
<https://scholarsarchive.byu.edu/cgi/viewcontent.cgi?article=1938&context=wnan>
31. Darby, N.W., T.B. Williams, G.M. Baker, M.R. Vinson. 2004. Minimizing effects of piscicides on macroinvertebrates. Wild Trout VIII Symposium Proceedings. Yellowstone National Park, September 20-22.
32. Vinson, M.R. and C.P. Hawkins. 2003. Broad-scale geographical patterns in stream insect genera richness. Ecography 26:751-767. <https://onlinelibrary.wiley.com/doi/full/10.1111/j.0906-7590.2003.03397.x>
33. Cao, Y, C.P. Hawkins, and M. R. Vinson. 2003. Measuring and controlling data quality in biological assemblage surveys with special reference to stream macroinvertebrates. Freshwater Biology 48:1898-1911. <https://onlinelibrary.wiley.com/doi/full/10.1046/j.1365-2427.2003.01123.x>
34. Hawkins, C. P. and M.R. Vinson. 2002. Patterns of local and regional invertebrate taxa richness in streams of North America. Proceedings International Association of Theoretical and Applied Limnology 27:3782
35. Vinson, M.R. 2001. Long-term dynamics of an invertebrate assemblage downstream from a large dam. Ecological Applications 11:711-730.
<https://esajournals.onlinelibrary.wiley.com/doi/abs/10.1890/1051-0761%282001%29011%5B0711%3ALTDOAI%5D2.0.CO%3B2>
36. Hawkins, C.P. and M.R. Vinson. 2000. Weak correspondence between landscape divisions and stream invertebrate assemblages: assessing the strengths of inductive and deductive classifications. The Journal of the North American Benthological Society 19:501-517.
<https://www.journals.uchicago.edu/doi/abs/10.2307/1468111>
37. Angradi, T.R. and M.R. Vinson. 1999. Book Review - Invertebrates in freshwater wetlands of North America: Ecology and Management. Water Resources Bulletin 35:1282-1283.
38. Vinson, M.R. and C.P. Hawkins. 1998. Biodiversity of stream insects: variation at local, basin, and regional scales. Annual Review of Entomology 43:271-293.
<https://www.annualreviews.org/doi/abs/10.1146/annurev.ento.43.1.271>
39. Vinson, M.R. and C.P. Hawkins. 1996. Effects of sampling area and subsampling procedure on comparisons of taxa richness among streams. The Journal of the North American Benthological Society 15:393-400. <https://www.journals.uchicago.edu/doi/pdfplus/10.2307/1467286> 6
40. Angradi, T.R. and M.R. Vinson. 1995. Aquatic monitoring on national forests and Bureau of Land Management Districts. Bulletin of the North American Benthological Society 12:389-398.
41. Vinson, M. and S. Levesque. 1994. Redband trout response to hypoxia in a natural environment. Great Basin Naturalist 54:150-155. <https://www.jstor.org/stable/41712824?seq=1>
42. Vinson, M., D. Vinson, and T. Angradi. 1992. Aquatic macrophytes and instream flow characteristics of a Rocky Mountain River. Rivers 3:260-265.

43. Gebhardt, K., M. Vinson, W.S. Platts, W. Jackson. 1989. Using expert systems in riparian management. In: Greswell, R.E., Barton, B.A., and Kershner, J.L. eds. Practical approaches to riparian resource management. U.S. Bureau of Land Management, Billings, MT.
44. Vinson, M. 1988. Sediment dynamics in meandering and straight sections of a relocated stream channel in coarse alluvium. In: Mutz, K.M. and Lee, C.L., eds. Wetland and Riparian Ecosystems of the American West. Proceedings of the Society of Wetland Scientists, November 14-18, Denver, CO.
45. Jensen, S., J. Griffith, M. Vinson. 1987. Creation of riparian and fish habitats, Birch Creek hydroelectric facility, Clark County, Idaho. In: Mutz, K. M. and Lee, C.L. eds. Wetland and Riparian Ecosystems of the American West. Proceedings of the Eighth Annual Meeting of the Society of Wetland Scientists, May 26-29, Seattle, WA. Pages 144-149.

Dissertation and Thesis

1. Vinson, M.R. 1998. Global patterns in stream insect taxa richness. PhD Dissertation Utah State University, Logan.
2. Vinson, M.R. 1988. An ecological and sedimentological evaluation of a relocated cold desert stream. MS Thesis Idaho State University, Pocatello.

Major government reports

1. Vinson, M.R. and 3 others. 2014-2020. Status and Trends in the Lake Superior Fish Community. Annual Report to the Great Lakes Fishery Commission.
2. Vinson, M.R. 2010. Survey of aquatic vascular plants in Dinosaur National Monument. 2009 Annual Report for Dinosaur National Monument, Dinosaur, CO. 16 pages.
3. Vinson, M.R. and G. Thiede. 2008. Fishes of the Neelum - Kishanganga River, India and Pakistan. Report to Hagler Bailly Pakistan and Ministry of Water and Power, Islamabad, Pakistan. 20 pages.
4. Vinson, M.R. and E.P. Dinger. 2008. Defining a minimum streamflow for ecological maintenance of the Neelum - Kishanganga River, India and Pakistan. Report to Hagler Bailly Pakistan and Ministry of Water and Power, Islamabad, Pakistan. 30 pages.
5. Vinson, M.R. and A. Caries. 2007. Aquatic residents of the North Fork of the Virgin River, Zion National Park.
6. Vinson, M.R., T. Harju, E.P. Dinger. 2007. Status of New Zealand Mud Snails (*Potamopyrgus antipodarum*) in the Green River downstream from Flaming Gorge Dam: current distribution; habitat preference and invertebrate changes; food web and fish effects; and predicted distributions. Final Report for Project Agreements: USFWS – 601815G405, NPS – J1242050058, and BLM – JSA041003.
7. Vinson, M.R. and D.K. Vinson. 2007. An analysis of the effects of rotenone on aquatic invertebrate assemblages in the Silver King Creek Basin, California. Report to U.S. Forest Service Humboldt-Toiyabe National Forest, Carson City, NV. 260 pages.
8. Dinger, E, P. Hosten, M. Vinson, and A. Walker. 2007. Cascade – Siskiyou National Monument spring aquatic invertebrates and their relation to environmental and management factors. U.S. Bureau of Land Management, Medford, OR. 46 pages.
9. Vinson, M.R. and E.C. Dinger. 2006. Flaming Gorge tailwater aquatic biota monitoring, 1994-2005: an 11 year analysis of the effects of more natural flow regimes. Report to Utah Division of Wildlife Resources and the U.S. Bureau of Reclamation, Salt Lake City, UT. 53 pages.
10. Vinson, M.R. and E.C. Dinger. 2007. Aquatic ecosystems and Invertebrates of the Grand Staircase-Escalante National Monument. U.S. Bureau of Land Management. Grand Staircase-Escalante National Monument.
11. Vinson, M.R. and E.C. Dinger. 2006. Effects of rotenone on aquatic invertebrate assemblages in the Virgin River in the vicinity of St. George, Utah. Washington County Water Conservation District, St. George, UT. 137 pages.

12. Vinson, M.R. 2005. An inventory of aquatic invertebrate assemblages in wetlands in Utah. Utah Division of Wildlife Resources, Salt Lake City, UT. 229 pages.
13. Vinson, M.R. 2004. The occurrence and distribution of New Zealand mudsnail (*Potamopyrgus antipodarum*) in Utah. Utah Division of Wildlife Resources, Salt Lake City, UT. 20 pages
14. One of 9 authors. 2004. A plan to monitor the aquatic and riparian resources in the area of PACFISH/INFISH and the biological opinion for bull trout, salmon, and steelhead. Interagency Regional Monitoring Program in the Pacific Northwest. U.S. Department of Agriculture, Rocky Mountain Research Station. Fort Collins. 102 pages.
15. One of 10 authors. 2004. Guide to effective monitoring of aquatic and riparian resources. General Technical Report RMRS-GTR-121. U.S. Department of Agriculture, Rocky Mountain Research Station. Fort Collins, CO. 57 pages.
16. Hawkins, C. J. Ostermiller, M.R. Vinson, R.J. Stevenson, J. Olson. 2003. Stream algae, invertebrate, and environmental sampling associated with biological water quality assessments: field protocols.
17. One of 19 authors. 2003. Natural ecosystems II. Aquatic Systems. Pages 185-206 In: F.H. Wagner (editor). Rocky Mountain/Great Basin regional climate-change assessment. Report for the U.S. Global Climate Change Research Program, Utah State University, Logan.
18. Vinson, M.R. 2003. Aquatic invertebrate assemblages in the Virgin River in the vicinity of St. George, Utah. Washington County Water Conservation District, St. George, UT. 127 pages.
19. Vinson, M.R. and E. Thompson. 2001. A comparison of aquatic invertebrate assemblages in the Green River in Dinosaur National Monument between 1962 and 2001. Dinosaur National Monument, CO. 31 pages.
20. Vinson, M.R. 2001. A preliminary assessment of wetland invertebrate assemblages in northern Utah. State of Utah Governor's Office, Contract 010681, Salt Lake City, UT. 132 pages.
21. Vinson, M.R. 1998. Aquatic invertebrate assemblages downstream from Flaming Gorge Dam. Utah Division of Wildlife Resources, U.S. Bureau of Reclamation, Salt Lake City, UT. 121 pages.
22. Vinson, M.R. 1996. A sampling strategy for assessing aquatic invertebrates associated with endangered fish populations in the upper Colorado River Basin. Recovery Implementation Program for the Endangered Fishes of the Upper Colorado River Basin. Recovery Program Project Number 60, U.S. Fish and Wildlife Service, Denver, CO. 16 pages.
23. Angradi, T.R. and M.R. Vinson. 1996. Fine sediment – aquatic macroinvertebrate community relationships in headwater streams of the Monongahela National Forest. Technical Report to Monongahela National Forest Supervisor, Elkins, WV. 48 pages.
24. Angradi, T.R. and M.R. Vinson. 1995. Status and attitudes toward aquatic macroinvertebrate monitoring on National Forests and Districts of the Bureau of Land Management. U.S.F.S. General Technical Report NE 200. 14 pages.