

**Matthew A. Weber**

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Chesapeake Biological Lab  
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**I. Education**

**Ph.D.** 2007, Hydrology and Water Resources, minor in Agricultural and Resource Economics, University of Arizona.

**B.A.** 1993, Environmental Sciences, minor in Economics, University of Virginia (Phi Beta Kappa).

**II. Experience**

*Assistant Research Scientist*, University of Maryland, Center for Environmental Science, 11/2017 to present.

*Independent Consultant* for Crucial Economics Group, 2/2018 to 6/2018.

*Independent Consultant* for Environmental Protection Agency, Office of Research and Development, Corvallis, Oregon, 6/2017 to 11/2017.

*Senior Water Resources Economist*, E.L. Montgomery & Associates, 4/2016 to 10/2017.

*Independent Consultant* for Bureau of Land Management, Fairbanks, Alaska office, 11/2016 to 12/2016.

*Argonne National Labs Associate* for Bureau of Land Management, Fairbanks, Alaska office, 2/2016 to 10/2016.

*Postdoctoral Economist*, Environmental Protection Agency, Corvallis, Oregon, 10/2008 to 11/2015.

*Economic Analyst*, Ecotrust, Portland, Oregon, 8/2007 to 10/2008.

**III. Research**

**A. Professional Expertise**

- Oyster aquaculture: effect of economic incentives on production, supply and demand trends, thresholds of economic viability.
- Survey research: planning, pretesting, sample design, and econometric analysis. Recreational value application: Aravaipa Creek Wilderness, Arizona. Total economic value applications: salmon recovery in the Willamette Valley Oregon, Santa Cruz River restoration in southern Arizona, Rio Grande River restoration in central New Mexico.
- Qualitative research: focus group planning, moderation, and analysis; content analysis study design, coding, and analysis.
- Ecosystem services: multiple techniques to quantify public values for natural resources and processes, attention to environmental justice issues, empirical methods to elucidate specific measurable metrics of public interest.

**B. Service**

- Board Member and Officer, Corvallis Environmental Center, 11/2014 to 12/2017.

### C. Selected Publications

- Weber, M.A., Wainger, L.A., Harms, N.E., and G.M. Nessler. Planning for Unpredictability: Value of Invasive Species Research. In Preparation.
- Weber, M.A., and P.L. Ringold. River Metrics by the Public, for the Public. 2019. PLoS ONE 14(5): e0214986.
- Weber MA, Wainger LA, Parker M, and T. Hollady. 2018. The potential for nutrient credit trading or economic incentives to expand Maryland oyster aquaculture. Report to Maryland Sea Grant, Award#NA14OAR4170090. CBL Technical Report TS-718-18, UMCES, Solomons, MD.
- Weber, M.A., Caplan, S., Ringold, P.L., and K. Blocksom. 2017. Rivers and streams in the media: a content analysis of ecosystem services. *Ecology and Society* 22(3).
- Weber, M.A., Meixner, T., and J. Stromberg. 2016. Valuing Ecosystem Services of an Effluent-Dominated River in the Southwestern US. *Ecosystem Services* 21: 59-71.
- Penaluna, B., Olson, D., Flitcroft, R., Weber, M.A., Bellmore, J.R., Wondzell, S., Dunham, J., Johnson, S., and G. Reeves. 2016. Biodiversity and Conservation. *Aquatic Biodiversity in Forests: A Weak Link in Ecological and Ecosystem Service Resilience*, pp.1-31.
- Boyd, J., Ringold, P.L, Krupnick, A., Johnston, R.J., Weber, M.A., and K. Hall. 2016. Ecosystem Services Indicators: Improving the Linkage Between Biophysical and Economic Analyses *International Review of Environmental and Resource Economics*, Vol. 8, Issue 3-4.
- Weber, M.A. 2015. Navigating Benefits Transfer for Salmon Improvements in the Western US. *Frontiers in Marine Science* 2: 74.
- Weber, M.A., and P.L. Ringold. 2015. River Metrics for Residents of an Urbanized Arid Watershed. *Landscape and Urban Planning* 133: 37-52.
- Weber, M.A. 2013. Environmental Justice Challenges for Ecosystem Service Valuation. Chapter 14 in, *Building a Green Economy: Perspectives from Ecological Economics*, edited by Robert B. Richardson. East Lansing, MI: Michigan State University Press.
- Ringold, P.L., Boyd, J.W., Landers, D., and M.A. Weber. 2013. What data should we collect? A framework for identifying indicators of ecosystem contributions to human well-being. *Frontiers in Ecology and the Environment* 11: 98–105.
- Weber, M.A., P. Mozumder, and R. Berrens. 2012. Accounting for unobserved time-varying quality in recreation demand: An application to a Sonoran Desert wilderness. *Water Resources Research* 48(5).
- Weber, M.A. EPA Use of Ecological Nonmarket Valuation. May, 2010. *Association of Environmental and Resource Economists Newsletter* 30(1): 26-35.
- Weber, M.A., Tidwell, V., and J. Thacher. 2010. Dynamic Physical and Economic Modelling of Riparian Restoration Options. *Environmental Modelling & Software* 25(12): 1825-1836.
- Weber, M.A., and S. Stewart. 2008. Public Valuation of River Restoration Strategies for the Middle Rio Grande. *Restoration Ecology* 17(6): 762-771.

Weber, M.A., and R. Berrens. 2006. Value of Instream Recreation in the Sonoran Desert. *Journal of Water Resources Planning and Management* 132(1): 53-60.