

History of Science & Science and Technology Studies on Restoration

Collected by Liz Anna Kozik, November 2018

Here's a survey of History of Science and Science and Technology Studies perspectives on restoration ecology and adjacent practices, collected by searching "ecological restoration"/"restoration ecology" within the journals:

Isis, Journal of the History of Biology, Science as Culture, Historical Studies in the Natural Sciences, History and Philosophy of the Life Sciences, Science, Technology, and Human Values, Social Studies of Science, Quarterly Review of Biology

Explicit Ecological Restoration Histories

Court, Franklin E. 2012. *Pioneers of Ecological Restoration: The People and Legacy of the UW Arboretum*. Madison, WI: University of Wisconsin Press.

Jordan, William R. 2010. "Some Reflections on Curtis Prairie and the Genesis of Ecological Restoration." *Ecological Management and Restoration* 11(2): 99–107.

Jordan, William R, and George Lubick. 2011. *Making Nature Whole: A History of Ecological Restoration*. 2nd ed. Washington DC: Island Press.

Pauly, Philip J. 2010. "Gardening American Landscapes: From Hyde Park to Curtis Prairie." In *Fruits and Plains: The Horticultural Transformation of America*, Cambridge, MA: Harvard University Press.

Stevens, William K. 1996. *Miracle Under the Oaks: The Revival of Nature in America*. New York, NY: Gallery Books.

Mathematical Methods

Lockwood, Dale R. 2008. "When Logic Fails Ecology." *The Quarterly Review of Biology* 83(1): 57–64.

Martin, Laura J. 2015. "Mathematizing Nature's Messiness: Graphical Representations of Variation in Ecology, 1930-Present." *Environmental Humanities* 7: 59–88.
www.environmentalhumanities.org.

Nikisianis, Nikos, and George P Stamou. 2011. "Quantifying Nature : Ideological Representations in the Concept of Diversity." *History and Philosophy of the Life Sciences* 33(3): 365–88.

Young, Christian C. 1998. "Defining the Range: The Development of Carrying Capacity in Management Practice." *Journal of the History of Biology* 31(1): 61–83.

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Expertise and Experience

Gross, Matthias. 2010. "Ecological Restoration and Experimental Learning." In *Ignorance and Surprise*, Boston, MA: MIT, 83–119.

Helford, Reid M. 2009. "Constructing Nature As Constructing Science: Expertise, Activist Science, and Public Conflict in the Chicago Wilderness." In *Restoring Nature: Perspectives from the Social Sciences and Humanities*, eds. Paul H. Gobster and R. Bruce Hull. Washington DC: Island Press, 119–42.
<http://link.aps.org/doi/10.1103/PhysRevB.79.054510>.

Economic Landscapes

Keiner, Christine. 1998. "W. K. Brooks and the Oyster Question: Science, Politics, and Resource Management in Maryland, 1880-1930." *Journal of the History of Biology* 31(3): 383–424.

Keiner, Christine. 2010. *The Oyster Question: Scientists, Watermen, and the Maryland Chesapeake Bay since 1880*. Athens, GA: University of Georgia Press.

Lave, Rebecca, Martin Doyle, and Morgan Robertson. 2010. "Privatizing Stream Restoration in the US." *Social Studies of Science* 40(5): 677–703.

Emotional Ecologies

Chew, Matthew K. 2009. 42 *Journal of the History of Biology* The Monstering of Tamarisk: How Scientists Made a Plant into a Problem.

Pauly, Philip J. 1996. "The Beauty and Menace of the Japanese Cherry Trees: Conflicting Visions of American Ecological Independence." *Isis* 87(1): 51–73.

Rikoon, S., and Robin Albee. 1998. "Wild Horses in the Ozarks." *Journal of Folklore Research* 35(3): 203–22.

Language as Seeing

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Keulartz, Jozef. 2010. "Towards a Multiple Vision of Ecological Restoration." In *Restoration and History: The Search for a Usable Environmental Past*, ed. Eric Higgs. New York, NY: Routledge, 236–50.

Lee, Stuart, Wolff-michael Roth, Stuart Lee, and Wolff-michael Roth. 2001. "How Ditch and Drain Become a Healthy Creek : Re-Presentations , Translations and Agency during the Re / Design of a Watershed." *Social Studies of Science* 31(3): 315–56.

Non-Human Participants

Goedeke, T. L., and S. Rikoon. 2008. "Otters as Actors: Scientific Controversy, Dynamism of Networks, and the Implications of Power in Ecological Restoration." *Social Studies of Science* 38(1): 113–34.

Rikoon, S., and Robin Albee. 1998. "Wild Horses in the Ozarks." *Journal of Folklore Research* 35(3): 203–22.

Colonial Legacies

Tomblin, David C. 2009. "The Ecological Restoration Movement." *Organization & Environment* 22(2): 185–207.
<http://journals.sagepub.com/doi/10.1177/1086026609338165>.

Tomblin, David C. 2010. "American Indian Restoration." In *Restoration and History: The Search for a Usable Environmental Past*, ed. Marcus Hall. London, UK: Routledge, 182–92.

Where are we going?

Keiner, Christine. 2013. "How Scientific Does Marine Environmental History Need to Be?" *Environmental History* 18(1): 111–20.