

# River Restoration Managing The Uncertainty In Restoring Physical Habitat

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River Restoration: Managing the Uncertainty in Restoring Physical Habitat. Stephen Darby (Editor), David Sear (Co-Editor) ISBN: 978-0-470-86706-8 March 2008 328 Pages. E-Book. Starting at just \$192.99. Print.

28/2/2008 · River Restoration: Managing the Uncertainty in Restoring Physical Habitat. River Restoration. : Stephen Darby, David Sear. John Wiley & Sons, Feb 28, 2008 - Science - 328 pages. 0 Reviews. River restoration projects are designed to recreate functional characteristics within a context of physical stability. They tend to focus on the development ...

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By Joseph M. Wheaton, S. E. Darby, and D. A. Sear, Published on 01/01/08. Journal/Book Title/Conference. River Restoration: Managing the Uncertainty in Restoring Physical Habitat

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tion impart a strong regional character to river systems. Therefore, restoration efforts require a strong regional context. Simply put, it is difficult to understand the condition of streams and design effective restoration measures without understanding their spatial context, the nature of habitat-forming processes, and disturbance history.

739 28 Uncertain restoration of gravel-bed rivers and the role of geomorphology David A. Sear, Joseph M. Wheaton and Stephen E. Darby Abstract River restoration projects in gravel-bed rivers are becoming increasingly sophisticated and complex as river managers and scientists attempt to deliver the goals of catch- ment-scale ecosystem restoration.

[1] River restoration is at the forefront of applied hydrologic science. However, many river restoration projects are conducted with minimal scientific context. We propose two themes around which a research agenda to advance the scientific basis for river restoration can be built. First, because natural variability is an inherent feature of all ...

Restoration Manual for the Columbia River Basin Acknowledgements This manual was largely made

possible by funding from the Bonneville Power Administration (BPA) for whom WDFW and other numerous entities do habitat restoration and maintenance work. The Bureau of Land Management (BLM) also contributed to the development of the manual.

River restoration contributes to biodiversity by restoring ecosystems and ecosystem processes that are heavily modified. Physical restoration works include re-meandering (i.e. bringing back the curves of a natural river), creating green-natural river banks where previously banks were encased in concrete, and fish passes that enable the migration of fish past sluices, dams, and other obstacles.

Walter K. Dodds, Matt R. Whiles, in *Freshwater Ecology* (Second Edition), 2010 Advanced: Classification of River and Stream Types as a Restoration and Management Tool. River restoration has become important as people have come to realize that alteration of hydrology, water chemistry, and biology of rivers has unintended consequences in urban (Bernhardt and Palmer, 2007) and other areas ...

River restoration: managing the uncertainty in restoring physical habitat. Wiley-Blackwell. ... River Restoration: Managing the Uncertainty in Restoring Physical Habitat (pp. 21-39). Wiley. Rinaldi, M., & Darby, S. E. (2007). ... Download a PDF of our prospectus ...

1/3/2010 · Uncertainty surrounding the ecological targets and response of river and stream restoration. Pages 139–166 in Darby SE, Sear DA, eds. *River Restoration: Managing the Uncertainty in Restoring Physical Habitat*.

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mobile habitat mosaics characterized by variability and unpredictability. Any river restoration initiative should aim to mimic these attributes. This paper suggests that there needs to be an increased institutional capacity to accept some levels of both variability and unpredictability in the ecological outcomes of river restoration projects.

human-facilitated analogues) have the potential to help restoration practitioners achieve their objectives. Beaver can be our new partner in habitat restoration. Yet even though the potential benefits of restoring beaver populations on the landscape are numerous, so, too, is the potential for beaver/human conflicts.

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15/11/2016 · Figure 3: Relationships between physical biotopes and biologically functional habitat features at the mesoscale of river systems. Overlapping circles symbolise the overlap in physical characteristics between different biotope units, which form a spectrum rather than discrete units.

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Pages 139–166 in Darby SE, Sear DA, eds. River Restoration: Managing the Uncertainty in Restoring Physical Habitat.

1/5/2014 · Managing the Uncertainty in Restoring Physical Habitat, John Wiley & Sons, Ltd, Chichester, UK (2008), pp. 3-13 View Record in Scopus Google Scholar Mason, 2004

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