

EWN FY15 IPR

National Manual for Planning and Design for Large Wood in Rivers Jock Conyngham

■ Problem

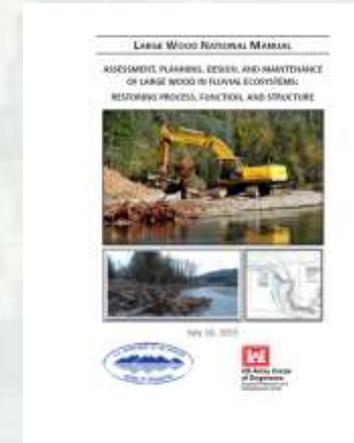
- Restoration practice in the broader community is limited by over-reliance on engineered structures using rock.
- Awareness of the multiple roles of large wood (LW) in aquatic and riparian ecosystems and its use has been minimized by the absence of robust, comprehensive guidance.

■ Objective

- Provide a manual addressing states of science and practice for large wood.
- Identify and address next steps in interagency large wood partnership

■ Approach

- Working with US Bureau of Reclamation (USBR), scope a comprehensive manual and contract multiple authors



- Develop and implement a multistage and broad peer review using reviewers from private sector, tribes, academia, and multiple federal agencies
- Final editing and inter-chapter coordination
- Rollout
- Identify and investigate next steps in EL/USBR LW partnership



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■ Project Funding by Year

- ▶ FY2015: \$115K
- ▶ FY2016: TBD

■ Major Product Deliverables w/ planned dates for completion

- Initial eight chapters produced and distributed—10/14
- Additional chapters produced—2/15
- Peer comments received and incorporated 3/15 and 7/15
- Submitted for executive review 8/15
- Public release 9/15

■ PDT Members

- Conyngham, USACE
- Wittler, USBR
- David Bandrowski, Houpa Tribe
- ICF team (Tim Abbe, Doug Shields, Leo Lentsch)
- Other contracted writers and peer reviewers
- Federal peer reviewers (USBR, USACE, NOAA, USGS, USFS)



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This manual, produced as the initial product in a formal partnership between ERDC and the USBR Technical Service Center, summarizes the current state of knowledge about important roles of large wood in US rivers, addresses how those roles can and should be addressed in passive, assisted, and active restoration efforts, and provides the first technical manual on large wood-based restoration planning, techniques, monitoring, and risks.



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■ FY15 Products

- Comprehensive (>600 pp.) manual produced, extensively peer-reviewed in iterative process, and submitted for executive review (done)
- Draft rollout plan identified for late FY15 and early FY16 (complicated by conference attendance approval process (ASCE/EWRI webinar; NCER and AFS conferences (tentative)
- Extensive partnering with USBR and contracted writers and reviewers, as well as federal agency reviewers (NOAA, USFWS, USFS)
- Next research steps identified for EL/USBR partnership—3-d hydraulic modeling in new flume, fish utilization work



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