

# Riparian Function Literature Review and Annotated Bibliography

Authors: Benjamin Spei, Brandon Light, Mark Kimsey



Cooperative Monitoring  
Evaluation & Research

**CMER 2025.02.25**

This Page intentionally left blank

DRAFT

**Washington State  
Cooperative Monitoring, Evaluation, and Research Committee (CMER)  
Report**

# **Riparian Function Literature Review and Annotated Bibliography**

**Prepared by  
Benjamin Spei, Brandon Light, Mark Kimsey**

**Project Manager  
Anna Toledo**

**Prepared for the  
Riparian Scientific Advisory Group (RSAG)  
of the**

**Washington State Forest Practices Board  
Adaptive Management Program  
Washington State Department of Natural Resources  
Olympia, Washington**

**CMER 2025.02.25**

## **Washington State Forest Practices Adaptive Management Program**

The Washington Forest Practices Board (FPB) has adopted an adaptive management program in concurrence with the Forests and Fish Report (FFR) and subsequent legislation. The purpose of this program is to:

Provide science-based recommendations and technical information to assist the board in determining if and when it is necessary or advisable to adjust rules and guidance for aquatic resources to achieve resource goals and objectives. (Forest Practices Rules, WAC 222-12-045)

To provide the science needed to support adaptive management, the FPB made the Cooperative Monitoring, Evaluation and Research Committee (CMER) a participant in the program. The FPB empowered CMER to conduct research, effectiveness monitoring, and validation monitoring in accordance with guidelines recommended in the FFR.

### **Report Type and Disclaimer**

This literature review was prepared for the Riparian Scientific Advisory Group. The literature review is intended to inform the Adaptive Management Program and provide information supplemental to the work of the Cooperative Monitoring, Evaluation and Research Committee (CMER).

This document was reviewed by CMER but was not assessed through the Adaptive Management Program's independent scientific peer review process. CMER has approved this document for distribution as an official CMER document. As a CMER document, CMER is in consensus on the scientific merit of the document. However, any conclusions, interpretations, or recommendations contained within this document are those of the authors and may not reflect the views of all CMER members.

The Forest Practices Board, CMER, and all the participants in the Forest Practices Adaptive Management Program hereby expressly disclaim all warranties of accuracy or fitness for any use of this report other than for the Adaptive Management Program. Reliance on the contents of this report by any persons or entities outside of the Adaptive Management Program established by WAC 222-12-045 is solely at the risk of the user.

### **Proprietary Statement**

This work was developed with public funding, as such it is within the public use domain. However, the concept of this work originated with the Washington State Forest Practices Adaptive Management Program and the authors. As a public resource document, this work should be given proper attribution and be properly cited.

## **Full Reference**

Spei, Benjamin, Brandon Light, Mark Kimsey. 2025. Riparian Function Literature Review and Annotated Bibliography. Cooperative Monitoring Evaluation and Research Report. CMER 02-25-2025. Washington Department of Natural Resources, Olympia, WA.

## **Author Contact Information**

Benjamin Spei, Ph.D.  
College of Natural Resources, Department of Forest, Rangeland and Fire Sciences, University of Idaho  
875 Perimeter Drive MS 1133  
Moscow, ID 83843  
bspei@uidaho.edu

## **Acknowledgements**

The authors would like to thank the members of the Riparian Scientific Advisory Group (RSAG) and all others who helped scope and guide the development of this literature review. The authors would also like to thank the reviewers within RSAG and CMER for their thoughtful and thorough comments. Finally, the authors would like to thank Rachel Rubin and Charles Goebel for their valuable feedback and contributions throughout the development of this literature review.