

# Contents

## Part I An Introduction to EMDS and its Major Components

<b>An Overview of the Ecosystem Management Decision-Support System . . . . .</b>	<b>3</b>
Keith M. Reynolds and Paul F. Hessburg	
<b>NetWeaver . . . . .</b>	<b>23</b>
Michael C. Saunders and Bruce J. Miller	
<b>Criterion DecisionPlus . . . . .</b>	<b>35</b>
Philip J. Murphy	

## Part II EMDS Applications

<b>Use of EMDS in Conservation and Management Planning for Watersheds . . . . .</b>	<b>63</b>
Sean N. Gordon	
<b>The Integrated Restoration and Protection Strategy of USDA Forest Service Region 1: A Road Map to Improved Planning . . . . .</b>	<b>93</b>
Patrick Bourgeron, Hope Humphries, Chip Fisher, Barry Bollenbacher and Keith Reynolds	
<b>Evaluating Wildfire Hazard and Risk for Fire Management Applications . . . . .</b>	<b>111</b>
Robert E. Keane, James P. Menakis, Paul F. Hessburg, Keith M. Reynolds and James D. Dickinson	
<b>Landscape Evaluation and Restoration Planning . . . . .</b>	<b>135</b>
Paul F. Hessburg, R. Brion Salter, Keith M. Reynolds, James D. Dickinson, William L. Gaines and Richy J. Harrod	

<b>Ecological Research Reserve Planning</b> . . . . .	175
David M. Stoms	
<b>Forest Conservation Planning</b> . . . . .	205
Michael D. White and James R. Strittholt	
<b>Wildlife Habitat Management</b> . . . . .	227
Sean N. Gordon, Heather McPherson, Lowell Dickson, Joshua Halofsky, Chris Snyder and Angus W. Brodie	
<b>Planning for Urban Growth and Sustainable Industrial Development</b> . . . . .	253
M <sup>a</sup> Carmen Ruiz Puente	
<b>Measuring Biological Sustainability via a Decision Support System: Experiences with Oregon Coast Coho Salmon</b> . . . . .	277
Thomas C. Wainwright, Peter W. Lawson, Gordon H. Reeves, Laurie A. Weitkamp, Heather A. Stout and Justin S. Mills	
 <b>Part III The Next Version and Final Thoughts</b>	
<b>EMDS 5.0 and Beyond</b> . . . . .	301
Steve Paplanus, Bruce Miller, Philip J. Murphy, Keith Reynolds and Michael Saunders	
<b>Synthesis and New Directions</b> . . . . .	315
Keith M. Reynolds, Paul F. Hessburg and Patrick S. Bourgeron	
<b>Index</b> . . . . .	333

Making Transparent Environmental Management  
Decisions

Applications of the Ecosystem Management Decision  
Support System

Reynolds, K.M.; Hessburg, P.F.; Bourgeron, P.S. (Eds.)

2014, XIX, 337 p. 69 illus., 49 illus. in color., Hardcover

ISBN: 978-3-642-31999-0