

CONTENTS

BOXES	xv
FOREWORD	xvii
<i>Peter H. Raven</i>	
ACKNOWLEDGMENTS	xix
Chapter 1. Introduction	1
<i>Joyce Maschinski and Kristin E. Haskins</i>	
PART I. Review of Plant Reintroductions	7
Chapter 2. Characterizing Two Decades of Rare Plant Reintroductions	9
<i>Edward O. Guerrant Jr.</i>	
Chapter 3. A Meta-Analysis of Threatened Plant Reintroductions from across the Globe	31
<i>Sarah E. Dalrymple, Esther Banks, Gavin B. Stewart, and Andrew S. Pullin</i>	
PART II. Reintroduction Science and Practice	51
Chapter 4. The Critical Role of the Public: Plant Conservation through Volunteer and Community Outreach Projects	53
<i>Joyce Maschinski, Samuel J. Wright, and Caroline Lewis</i>	
Chapter 5. Genetic Considerations in Rare Plant Reintroduction: Practical Applications (or How Are We Doing?)	71
<i>Jennifer Ramp Neale</i>	
Chapter 6. Transitioning Plants to New Environments: Beneficial Applications of Soil Microbes	89
<i>Kristin E. Haskins and Valerie Pence</i>	

Chapter 7. Optimal Locations for Plant Reintroductions in a Changing World	109
<i>Joyce Maschinski, Donald A. Falk, Samuel J. Wright, Jennifer Possley, Julissa Roncal, and Kristie S. Wendelberger</i>	
Chapter 8. Strategic Decisions in Conservation: Using Species Distribution Modeling to Match Ecological Requirements to Available Habitat	131
<i>Crystal Krause and Deana Pennington</i>	
Chapter 9. Using Population Viability Analysis to Plan Reintroductions	155
<i>Tiffany M. Knight</i>	
Chapter 10. Influence of Founder Population Size, Propagule Stages, and Life History on the Survival of Reintroduced Plant Populations	171
<i>Matthew A. Albrecht and Joyce Maschinski</i>	
Chapter 11. Determining Success Criteria for Reintroductions of Threatened Long-Lived Plants	189
<i>Leonie Monks, David Coates, Timothy Bell, and Marlin Bowles</i>	
Chapter 12. Unique Reintroduction Considerations in Hawaii: Case Studies from a Decade of Rare Plant Restoration at the Oahu Army Natural Resource Rare Plant Program	209
<i>H. Kapua Kawelo, Susan Ching Harbin, Stephanie M. Joe, Matthew J. Keir, and Lauren Weisenberger</i>	
PART III. Managed Relocation	227
Chapter 13. Managed Relocation: Panacea or Pandemonium?	229
<i>Kristin E. Haskins and Brian G. Keel</i>	
Chapter 14. Is Managed Relocation of Rare Plants Another Pathway for Biological Invasions?	243
<i>Sarah Reichard, Hong Liu, and Chad Husby</i>	
PART IV. Synthesis and Appendices	263
Chapter 15. Synthesis and Future Directions	265
<i>Kathryn Kennedy, Matthew A. Albrecht, Edward O. Guerrant Jr., Sarah E. Dalrymple, Joyce Maschinski, and Kristin E. Haskins</i>	
APPENDIX 1: CENTER FOR PLANT CONSERVATION BEST REINTRODUCTION PRACTICE GUIDELINES	277
<i>Joyce Maschinski, Matthew A. Albrecht, Leonie Monks, and Kristin E. Haskins</i>	
APPENDIX 2: STUDIES USED FOR META-ANALYSES	307
<i>Edward O. Guerrant Jr., Matthew A. Albrecht, and Sarah E. Dalrymple</i>	

GLOSSARY	319
LITERATURE CITED	323
CONTRIBUTORS	377
INDEX	387