

Contents

<i>List of Contributors</i>	<i>page</i>	viii		
PART I INTRODUCTION				
1 Introduction: Sustainability of Engineered Rivers in Arid Lands <i>Jurgen Schmandt</i>	1	11	The São Francisco River Basin <i>Antônio R. Magalhães and Eduardo Sávio P. R. Martins</i>	132
	3	12	The Limarí River Basin <i>Alexandra Nauditt, Justyna Sycz, and Lars Ribbe</i>	152
	31	13	The Colorado River Basin <i>Douglas S. Kenney, Michael Cohen, John Berggren, and Regina M. Buono</i>	164
	46	14	The Rio Grande / Río Bravo Basin <i>George H. Ward and Jurgen Schmandt</i>	181
	49	15	The Jucar River Basin <i>Jose Albiac, Taher Kahil, and Encarna Esteban</i>	220
PART II CHALLENGE				
2 Global Climate Change and the Rivers <i>Gerald R. North</i>	11	233	PART IV RESPONSE	
3 Reservoirs: Design, Functions, Challenges <i>George H. Ward</i>	13	235	16 River Basin Management and Irrigation <i>François Molle</i>	
4 Depletion of Groundwater: The Surface–Groundwater Connection <i>Stephanie Glenn</i>	31	246	17 “Intelligent” Water Transfers <i>Eduardo Sávio P. R. Martins, Antônio R. Magalhães, and James E. Nickum</i>	
5 Endangered Food Security <i>Olcay Ünver, Eduardo Mansur, and Melvyn Kay</i>	46	260	18 Better Basin Management with Stakeholder Participation <i>Jurgen Schmandt and Aysegül Kibaroglu</i>	
6 Declining Environmental Flows <i>Stephanie Glenn and R. James Lester</i>	57	271	PART V CONCLUSION	
PART III ENGINEERED RIVERS: PAST, PRESENT, AND FUTURE				
7 The Nile River Basin <i>Muhammad Khalifa, Sephra Thomas, and Lars Ribbe</i>	79	273	19 Conclusion: What We Found and What We Recommend <i>Aysegül Kibaroglu, Jurgen Schmandt, and George H. Ward</i>	
8 The Euphrates–Tigris River Basin <i>Aysegül Kibaroglu</i>	94	282	<i>Index</i>	
9 The Yellow River Basin <i>James E. Nickum and Jia Shaofeng</i>	107			
10 The Murray–Darling River Basin <i>Daniel Connell</i>	121			