



dandelion.com

© 2008 A.G.I. Information Management Consultants
May be used for personal purposes only or by
libraries associated to dandelion.com network.

Both Sides of the Border

Transboundary Environmental Management Issues Facing Mexico and the United States

Edited by

Linda Fernandez

*University of California,
Riverside, U.S.A.*

and

Richard T. Carson

*University of California,
San Diego, U.S.A.*



KLUWER ACADEMIC PUBLISHERS

DORDRECHT / BOSTON / LONDON

Contents

Foreword	VII
Acknowledgements	IX
Introduction	1
I. Law, Politics, and Institutions for a Border Environment	13
Improving Institutional Response to Environmental Problems <i>Mark J. Spalding</i>	15
Impact of Two NAFTA Institutions on Border Water Infrastructure <i>Nicole Carter and Leonard Ortolano</i>	29
Binational Cooperation and the Environment at the U.S.-Mexico Border: A Mexican Perspective <i>Roberto A. Sánchez</i>	53
II. Characteristics of the Border Community	73
Characteristics of Border Communities <i>Chris L. Gianos</i>	75
“Off the Backs of Others”: The Political Ecology of Credit, Debt, and Class Formation and Transformation Among the Colonias of New Mexico and Elsewhere <i>Carlos Velez-Ibanez, Guillermina Nunez, and Dominic Rissdo</i>	97
Immigration, Agriculture and the Border <i>Philip Martin</i>	117
III. Border Water	129
Financing Bilateral Water Projects on the U.S.-Mexico Border: Past, Present and Future <i>George Frisvold and Margriet Caswell</i>	131
Lessons in Transboundary Resource Management from Ambos Nogales <i>Suzanne Levesque and Helen Ingram</i>	161
Changes in Trade Policy and Wastewater Emissions for a Border Watershed <i>Linda Fernandez</i>	183
The Geography of Water Transfers and Urbanization in Baja and Southern California <i>Suzanne Michel</i>	199
Restoring Instream Flows Economically: Perspectives from an International River Basin <i>James F. Booker and Frank A. Ward</i>	235

IV. Air Pollution, Transportation, Energy, Hazardous Materials	253
Solving Transboundary Air Quality Problems in the Paso del Norte Region <i>Carlos A. Rincón</i>	255
Border Congestion, Air Quality and Commerce <i>Richard W. Halvey</i>	281
U.S. Transportation Responses to NAFTA: A Window on U.S.-Mexico Transport Issues <i>Gian-Claudia Sciara</i>	305
The US-Mexico Border Energy Zone <i>Martin J. Pasqualetti</i>	323
Whither Hazardous-materials Management in the U.S.-Mexico Border Region? <i>Robert Varady, Patricia Romero Lankao, and Katherine Hankins</i>	347
V. Biological Resources, Terrestrial and Aquatic Habitat Protection	383
Divergence in Californian Vegetation and Fire Regimes Induced by Differences in Fire Management across the U.S.-Mexico Boundary <i>Richard A. Minnich and Ernesto Franco-Vizcaino</i>	385
Whales and Shared Coastal and Marine Management of the Border Pacific <i>Mark J. Spalding</i>	403
Sea Turtle Conservation across the Shared Marine Border <i>Peter H. Dutton, Laura Sarti, Rene Márquez, and Dale Squires</i>	429
Migration of Exotic Pests: Phytosanitary Regulations and Cooperative Policies to Protect U.S. Ecosystems and Agricultural Interests <i>Lori Lynch</i>	455
Conclusion	485