

Contents

Part I History and Fundamental Ecological Concepts	
1 Exurbanization and Aldo Leopold’s Human–Land Community	3
Adrian X. Esparza	
2 Fundamental Concepts in Ecology	27
Guy McPherson	
3 Climate Change and Ecology in Rural Lands	39
Joel R. Brown	
Part II Exurban Land Development, Habitat, and Wildlife	
4 Biodiversity and Residential Development Beyond the Urban Fringe	59
Carl E. Bock and Jane H. Bock	
5 Wildlife Corridors and Developed Landscapes	85
Stephen DeStefano	
6 Exurban Land Development and Breeding Birds	103
R. William Mannan	
7 Integrating Wildlife Conservation into Land-Use Plans for Rapidly Growing Cities	117
William W. Shaw, Rachel McCaffrey, and Robert J. Steidl	
8 Into the Wild: Vegetation, Alien Plants, and Familiar Fire at the Exurban Frontier	133
Lynn Huntsinger	
Part III Water Resources, Wetlands, and Storm Water Management	
9 Impacts of Exurban Development on Water Quality	159
Kathleen A. Lohse and Adina M. Merenlender	

10	Preparing for Human Expansion into Exurban Riparian Areas	181
	Ann Audrey, Mark Briggs, and Kendall Kroesen	
11	Storm Water Management in Exurbia	199
	Evan Canfield and Richard H. Hawkins	
Part IV Science-Based Planning in Exurban Areas		
12	A Science-Based Approach to Regional Conservation Planning . .	217
	Robert J. Steidl, William W. Shaw, and Paul Fromer	
13	Mitigating Environmental Problems in Exurban Development: An Overview of Rural-Specific Planning Devices	235
	David W. Marcouiller and David Tremble	
Index		255

The Planner's Guide to Natural Resource Conservation:
The Science of Land Development Beyond the
Metropolitan Fringe

Esparza, A.X.; McPherson, G. (Eds.)

2009, XXII, 258 p., Hardcover

ISBN: 978-0-387-98166-6