

1. Record Nr.	UNINA9910483626703321
Titolo	Ecoregional Green Roofs : Theory and Application in the Western USA and Canada // edited by Bruce Dvorak
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
ISBN	3-030-58395-3
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (626 pages)
Collana	Cities and Nature, , 2520-8314
Disciplina	635.9671
Soggetti	Sociology, Urban Sustainable architecture Urban ecology (Biology) Biodiversity Physical geography Plants - Evolution Urban Sociology Sustainable Architecture/Green Buildings Urban Ecology Physical Geography Plant Evolution
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Part I: Background and Theory -- Chapter 1. Introduction to Ecoregional Green Roofs -- Chapter 2. Theoretical Development of Ecoregional Green Roofs -- Part II: Application: Ecoregional Green Roof Case Studies -- Chapter 3. Tallgrass Prairie Ecoregions -- Chapter 4. Shortgrass Prairie Ecoregions -- Chapter 5. Desert Southwest Ecoregions -- Chapter 6. Intermontane Semi-arid Grassland Ecoregions -- Chapter 7. California Coastal Ecoregions -- Chapter 8. Puget Lowland Ecoregions -- Chapter 9. Willamette Valley Ecoregions -- Chapter 10. Fraser Lowlands and Vancouver Island Ecoregions -- Part III: Summary and Future Outlook -- Chapter 11. Ecoregional Green Infrastructure and Future Outlook -- Afterword.

This book studies the application of green roofs in ecoregions of the western United States and Canada. While green roofs were intended to sustain local or regional vegetation, this volume describes how green roofs in their modern form are typically planted with a low-diversity mix of sedums from Europe or Asia. The authors demonstrate how in the western USA and Canada many green roofs have been designed with native plants and have been found to thrive. Part I of this book covers theory and an overview of ecoregions and their implications for green roofs. In Part II vegetation from prairies, deserts, montane meadows, coastal meadows, and scrub and sub-alpine habitats are explored on seventy-three ecoregional green roofs. Case studies explore design concepts, materials, watering and maintenance, wildlife, plant species, and lessons learned. Part II covers an overview of ecoregional green roofs and a future outlook. This book is aimed at professionals, designers, researchers, students and educators with an interest in green roofs and the preservation of biodiversity. .
