

1. Record Nr.	UNINA9910284951303321
Titolo	Invasive plant ecology and management : linking processes to practice // edited by Thomas A. Monaco, Roger L. Sheley
Pubbl/distr/stampa	Wallingford, Oxfordshire ; ; Cambridge, MA, : CABI, c2012
ISBN	1-280-37838-7 9786613556295 1-84593-889-5
Descrizione fisica	1 online resource (216 p.)
Collana	CABI invasive species series ; ; 2
Altri autori (Persone)	MonacoThomas A SheleyRoger L
Disciplina	581.62
Soggetti	Invasive plants - Ecology Invasive plants - Control
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Contents; Contributors; Foreword; Preface; Acknowledgements; PART I: ASSESSING ECOSYSTEM PROCESSES AND INVASIVE PLANT IMPACTS; 1 Managing Invasive Species in Heterogeneous Ecosystems; 2 Linking Disturbance Regimes, Vegetation Dynamics, and Plant Strategies Across Complex Landscapes to Mitigate and Manage Plant Invasions; 3 Land-use Legacy Effects of Cultivation on Ecological Processes; 4 Resource Pool Dynamics: Conditions That Regulate Species Interactions and Dominance; 5 Invasive Plant Impacts on Soil Properties, Nutrient Cycling, and Microbial Communities PART II: PRINCIPLES AND PRACTICES TO INFLUENCE ECOSYSTEM CHANGE6 Weather Variability, Ecological Processes, and Optimization of Soil Micro-environment for Rangeland Restoration; 7 The Effects of Plant-Soil Feedbacks on Invasive Plants: Mechanisms and Potential Management Options; 8 Species Performance: the Relationship Between Nutrient Availability, Life History Traits, and Stress; 9 Reducing Invasive Plant Performance: a Precursor to Restoration; 10 Revegetation: Using Current Technologies and Ecological Knowledge to Manage Site Availability, Species Availability, and Species Performance IndexA; B; C; D; E; F; H; I; K; L; M; N; P; R; S; T; U; W

Bringing together ecology and management of invasive plants within natural and agricultural ecosystems, this book bridges the knowledge gap between the processes operating within ecosystems and the practices used to prevent, contain, control and eradicate invasive plant species. The book targets key processes that can be managed, the impact of invasive plants on these ecosystem processes and illustrates how adopting ecologically based principles can influence the ecosystem and lead to effective land management. It is suitable for researchers, practitioners and students of ecology, invasive spe
