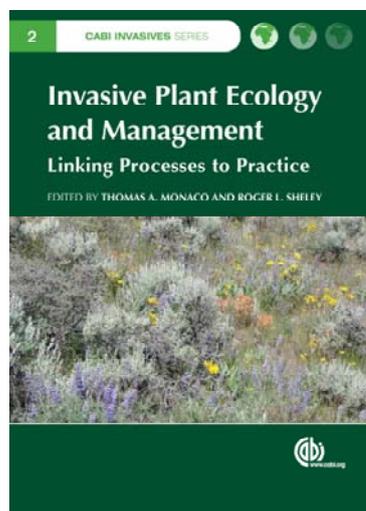


## new book information from CABI



### Invasive Plant Ecology and Management

#### Linking Processes to Practice

CABI Invasives Series, No.2

Edited by **T A Monaco** and **R L Sheley**, USDA-Agricultural Research Service, USA

9781845938116

March 2012 / c.216 pages / Hardback / 244x172 mm / 27 illustrations

Subject Classification: PST

Territorial Market Rights: World

#### Description:

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.

#### Audience:

Researchers, practitioners and students of ecology, invasive species management and weed science.

#### Contents:

##### **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 2 - Principles and practices to influence ecosystem change**

6. 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