

JOHN R. WILSON has published close to one hundred papers in peer-reviewed journals on a wide range of ecological and evolutionary topics, with a particular focus on invasion science. Based in South Africa, he is a member of the IUCN Invasive Species Specialist Group, and works across science, management and policy.

F. DANE PANETTA has over forty years of weeds-related research experience in the areas of ecology, risk assessment and incursion management. He has published close to one hundred papers in peer-reviewed journals and has edited or co-edited three books, including one on weed risk assessment. He resides in Brisbane, Australia.

CORY LINDGREN is an ecologist and biosecurity policy analyst who earned his PhD from the University of Manitoba. He is a long time director of the Invasive Species Council of Manitoba and on the organizing committee for the Weeds Across Borders conference. He has authored numerous peer-reviewed papers and contributed chapters to books on invasive species.



Ecologists, land managers, and policy makers continue to search for the most effective ways to manage biological invasions. An emerging lesson is that proactive management can limit negative impacts, reduce risks, and save money. This book explores how to detect and respond to alien plant incursions, summarising the most current literature, providing practical recommendations, and reviewing the conditions and processes necessary to achieve prevention, eradication, and containment. Chapter topics include assessing invasiveness and the impact of alien plants, how to improve surveillance efforts, how to make timely management decisions, and how legislation and strategic planning can support management. Each chapter includes text boxes written by international experts that discuss topical issues such as spatial predictive modelling, costing invasions, biosecurity, biofuels, and dealing with conflict species.

Cover illustration: (front) *Campulodinium macrocephalum* (pom-pom weed) invading the Lekgalameetse Nature Reserve, near Tzaneen, South Africa. Much of the invasion in this picture is on disturbed land, but the plant has since spread into undisturbed grasslands in the Wolkberg Mountains visible in the background. Photo courtesy of Lesley Henderson; (back) participants looking for *Hironia* species in the Australian Alps as part of a detection experiment. A scribe (background right) records the time to detection of each plant found by the two surveyors. Photo courtesy of Roger Cousens.

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