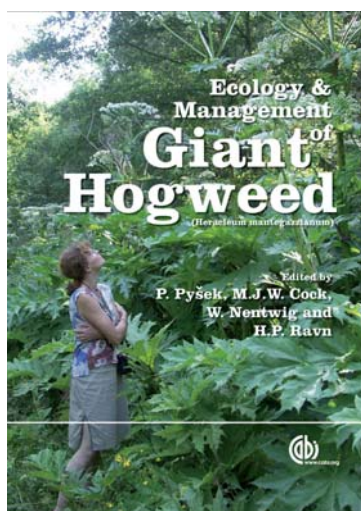


New Book from CABI



Ecology and Management of Giant Hogweed (*Heracleum mantegazzianum*)

Edited by **P Pyšek**, Institute of Botany Průhonice, Czech Republic, **M J W Cock**, CABI, Switzerland, **W Nentwig**, University of Bern, Switzerland and **H P Ravn**, Forest & Landscape, Denmark.

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Subject Classification: PDW, PST, PSTL, PSTS, RNF
Territorial Market Rights: World

Readership:

Students and researchers in agriculture, conservation, weed science and plant ecology. Practitioners in the control of invasive species.

Description:

The Giant Hogweed *Heracleum mantegazzianum* is a pernicious invasive species, with significant impact on human health due to its phytotoxic sap. From its native area, the Caucasus, it has spread across Europe creating serious environmental and health problems. This book, the output of a three-year EU project involving 40 European experts, is an authoritative compendium of current knowledge on this amazing invasive plant and will facilitate improved management. It is an invaluable resource for both practitioner and student, and covers topics including taxonomy, genetics, reproduction, population ecology, and invasion dynamics. It also reviews the possibilities of mechanical, chemical and biological control.

Contents:

- Preface: All you ever wanted to know about hogweed, but were afraid to ask! *D M Richardson*
- Taxonomy, identification, genetic relationships and distribution of large *Heracleum* species in Europe, *Š Jahodová, Charles University, Czech Republic; L Fröberg, Lund University, Sweden; P Pyšek; D Geltman, Komarov Botanical Institute, Russia; S Trybrush, Rothamstead Research, UK; and A Karp, Rothamstead Research, UK*
- *Heracleum mantegazzianum* in its primary distribution range of the Western Caucasus, *A Otte, R L Eckstein and J Thiele, all University of Giessen, Germany*
- Historical Dynamics of *Heracleum mantegazzianum* invasion at regional and local scales, *P Pyšek; J Müllerová, Academy of Sciences of the Czech Republic; and V Jarošík, Charles University, Czech Republic*
- Reproductive ecology of *Heracleum mantegazzianum*, *I Perglová, J Pergl, both Academy of Sciences of the Czech Republic; P Pyšek*
- Seed germination, dispersal and seed bank in *Heracleum mantegazzianum*, *L Moravcová, Academy of Sciences of the Czech Republic; P Pyšek; L Krinke, Charles University, Czech Republic; I Perglová; and K Thompson, University of Sheffield, UK*
- Population Dynamics of *Heracleum mantegazzianum*, *J Pergl; J Hüls, Justus-Leibig-University Giessen, Germany; I Perglová; R L Eckstein; P Pyšek and A Otte*
- Regeneration ability of *Heracleum mantegazzianum* and implications for control, *P Pyšek; I Perglová; L Krinke; V Jarošík; J Pergl and L Moravcová*

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Contents continued:

- Ecological needs, habitat preferences and plant communities invaded by *Heracleum mantegazzianum*, *J Thiele*; *A Otte and R L Eckstein*
- Impact of *Heracleum mantegazzianum* on invaded vegetation and human activities, *J Thiele and A Otte*
- Seed ecology of *Heracleum mantegazzianum* and *H. sosnowskyi*, two invasive species with different distribution in Europe, *L Moravcová, Z Gudžinskas, P Pyšek; J Pergl, and I Perglová*
- Herbivores and arthropods on *Heracleum mantegazzianum* in its native and invaded distribution range, *S O Hanson, J Hattendorf, both University of Bern, Switzerland; C Nielsen, Royal Veterinary and Agricultural University, Denmark; R Wittenberg, CABI Switzerland; W Nentwig*
- Fungal pathogens associated with *Heracleum mantegazzianum* in its native and invaded distribution range, *M K Seier and H C Evans, both CABI UK*
- Defence systems of *Heracleum mantegazzianum*, *J Hattendorf, S O Hansen and W Nentwig*
- Mechanical and chemical control of *Heracleum mantegazzianum* and *H. sosnowskyi*, *C Nielsen; I Vanaga, O Triekale and I Priekule, all Latvian Plant Protection Centre*
- Control of *Heracleum mantegazzianum* by grazing, *R M Buttenschøn, Danish Centre for Forest, Landscape and Planning; C Nielsen*
- The scope for biological control of giant hogweed, *Heracleum mantegazzianum*, *M Cock and M K Seier*
- Revegetation as a part of an integrated management strategy for large *Heracleum* species, *H P Ravn, O Triekale, I Vanaga and I Priekule*
- Model-assisted evaluation of control strategies for *Heracleum mantegazzianum*, *N Nehrbass and E Winkler, both UFZ Centre for Environmental Research Leipzig-Halle, Germany*
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