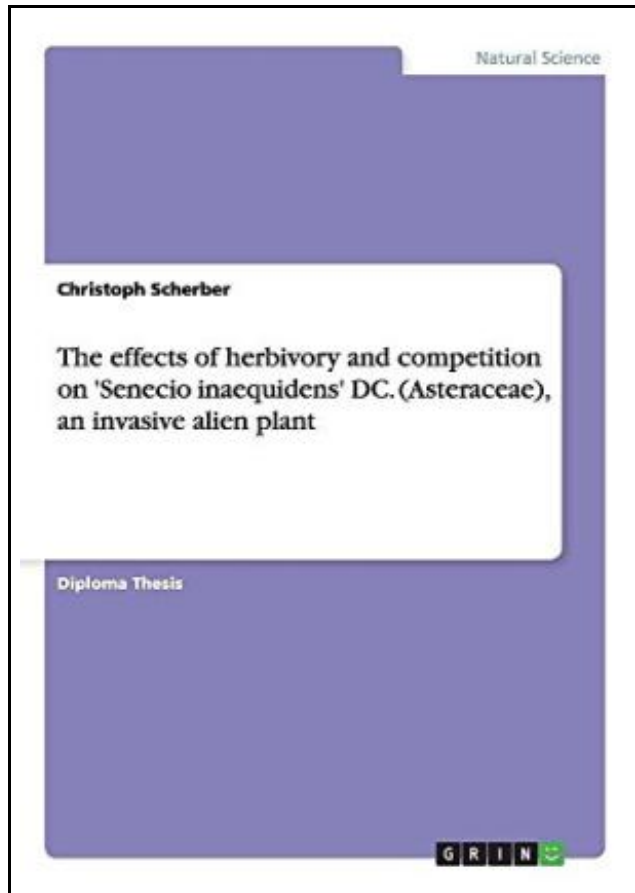


The Effects of Herbivory and Competition on Senecio Inaequidens DC. (Asteraceae), an Invasive Alien Plant



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Reviews

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(Prof. Isaiah Harber)

THE EFFECTS OF HERBIVORY AND COMPETITION ON SENECIO INAEQUIDENS DC. (ASTERACEAE), AN INVASIVE ALIEN PLANT



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Grin Verlag. Paperback. Book Condition: New. Paperback. 108 pages. Dimensions: 8.1in. x 5.6in. x 0.5in. Diploma Thesis from the year 2002 in the subject Biology - Ecology, grade: 1, 0 (A), University of Rostock (Institute for Botany), 120 entries in the bibliography, language: English, abstract: Since the end of the 19th century, overall per-capita mobility of humans has increased significantly, leading to increased rates in human-mediated transportation of animal and plant species. The rapid spread of alien organisms, however, may lead to quick and unpredictable changes in ecosystems. *Senecio inaequidens* DC. (Asteraceae) is an invasive alien plant from South Africa that was first introduced to Europe 100 years ago and is characterized by an exceptionally fast rate of spread; it contains pyrrolizidine alkaloids that are toxic to invertebrates, livestock and humans. In the study presented here, laboratory, greenhouse and field experiments on the biology of *Senecio inaequidens* were conducted, in order to find out if and how herbivory and plant competition influence growth, survival and reproduction of this plant. Specifically, the presence of vertebrate herbivores, molluscs, insects and plant competitors was experimentally manipulated using full factorial and split-plot designs. All experiments were performed at Imperial College, Silwood Park, about 30 km west of London (UK). Growth and fecundity of *Senecio inaequidens* were significantly affected by interspecific competition. Vertebrate herbivory only had a significant effect when a closed vegetation cover was present. On artificially disturbed plots, *Senecio inaequidens* showed high capability to overcompensate for herbivory. Mollusc herbivory significantly reduced fecundity of *S. inaequidens*. Different ecotypes of *Senecio inaequidens* showed different amounts of herbivore damage. One of the most remarkable results of this study was that *Longitarsus jacobaeae*, a native specialist leaf beetle, freely colonized *Senecio inaequidens*, indicating that native herbivores might be suitable biocontrol agents of invasive alien pla This item ships...

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