

# **Proceedings Of The 5th Australasian Conference On Grassland Invertebrate Ecology Held At University Of Melbourne Victoria Australia 15 19 August 1988**

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natural and anthropogenic grasslands such as prairies meadows rangelands and pastures cover  
more than 40 of the planet s surface and provide a wealth of ecological services grasslands  
alone store one third of the global carbon stocks and grass roots through their specific  
architectures ensure water cycling and prevent the erosion of fertile topsoil in addition  
grasslands are of vital importance for human food production as vast areas of rangelands and  
pastures provide feed for livestock pastoral legumes mobilize atmospheric nitrogen and  
improve fertility of arable soils not least grasslands are an essential genetic resource the  
three major crop species that feed half of the global population have been bred from wild  
grasses ancestors of our contemporary turf cultivars common components of urban landscapes  
and recreation spaces originated from wild grasslands although natural and managed grasslands  
represent pivotal ecosystems many aspects of how they function are poorly understood to date  
most attention has focused on grassland primary producers i e forage plants and mammalian  
grazers but invertebrates are likely to play an equally if not more important role in  
grassland ecosystem functioning in australian pastures for example the biomass of root

feeding scarab beetles can often exceed that of sheep and plant damage caused by invertebrates is sometimes equivalent to an average dairy cow's grass consumption indeed grasslands are one of the most densely populated ecosystems with invertebrates being probably the most important engineers that shape both plant communities and the grassland as a whole in a rapidly changing world with increasing anthropogenic pressure on grasslands this research topic focuses on 1 how grassland habitats shape invertebrate biodiversity 2 impacts of climate change on grassland invertebrate interactions 3 plant and invertebrate pest monitoring and management 4 plant mediated multitrophic interactions and biological control in grasslands 5 land use and grassland invertebrates 6 plant resistance to invertebrate pests given the increasing demand for food and land for human habitation unprecedented threats to grasslands are anticipated resilient to some extent these key ecosystems need to be better comprehended to guarantee their sustainable management and ecosystem services

grasslands comprise more than a quarter of the earth's land surface in addition to supporting a wide range of vertebrates such as domestic livestock and a variety of game species grassland is the natural habitat for a wide range of invertebrate species and this book considers those which occur in grassland and their impact on soil fertility and herbage growth it describes grassland as a habitat for invertebrates the groups which occur there and their abundance an extensive literature on grassland invertebrates scattered through numerous scientific journals and reports is drawn on in an attempt to develop an overview in the opening chapter the major grassland types are considered and the features which influence the distribution and abundance of the invertebrates which inhabit them are discussed next the major taxonomic groups are reviewed in turn with a brief account of their biology and ecology and of their ecosystem role some general features of grassland invertebrate communities are then described and the factors which influence the population densities of their constituent species are considered particular attention is given to the ways in which populations are influenced by management practices the final and largest chapter deals with the various ways in which invertebrates influence important grassland processes through ingestion of organic matter interaction with injurious species is considered with particular emphasis on the potential for achieving this through manipulating grassland management practices

comprehensive review of importation release evaluation and management of organisms imported for biological control emphasis on those areas of biological control programs for which the

records have not previously been compiled or are dispersed through literature in unpublished reports or in the files of the respective organisations six sections 1 pasture pests 2 field crops and vegetable pests 3 fruit crop pests 4 forestry pests 5 weeds 6 nuisance pests

in the uk there are some 1 5 million hectars of low lying land much of which has the potential to be wet grassland most has been drained and improved for agriculture only 109 500 hectares support breeding waders there are 32 rdb candidate rdb species of birds which depend or partly depend on lowland wet grassland in addition some 500 of the 1500 british vascular plant species and large numbers of invertebrate may be found in this habitat

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