

Geobotany 27

Regeneration of Plants
in Arid Ecosystems
Resulting from Patch Disturbance

by

Yitzchak Gutterman



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Regeneration of Plants in Arid Ecosystems Resulting from Patch Disturbance Yitzchak Gutterman, 2013-03-14 The main subject of this book is the interaction between diggings created by porcupines when consuming geophytes and their influences on annual and perennial vegetation in a desert biome The accumulation of run off water in diggings and depressions made by animals increases the carrying capacity of these microhabitats in the desert biome The accumulation of run off water does not only benefit the natural vegetation a system of human made depressions can be evolved to increase the catchment of the run off water that is typical to many desert habitats and can lead to run off agriculture in such areas This book will be of interest to anyone working in the fields of development of deserts from the ecological point of view water resources soil protection and erosion plant ecophysiology and settlement and agronomy It will be helpful to students researchers teachers and anyone interested in any of these areas

Regeneration of Plants in Arid Ecosystems Resulting from Patch Disturbance Yitzchak Gutterman, 2001-03-31 The main subject of this book is the interaction between diggings created by porcupines when consuming geophytes and their influences on annual and perennial vegetation in a desert biome The accumulation of run off water in diggings and depressions made by animals increases the carrying capacity of these microhabitats in the desert biome The accumulation of run off water does not only benefit the natural vegetation a system of human made depressions can be evolved to increase the catchment of the run off water that is typical to many desert habitats and can lead to run off agriculture in such areas This book will be of interest to anyone working in the fields of development of deserts from the ecological point of view water resources soil protection and erosion plant ecophysiology and settlement and agronomy It will be helpful to students researchers teachers and anyone interested in any of these areas

The Biology of Seeds Gregorio Nicolas, 2003 This book presents edited and revised papers from the seventh International Workshop on Seeds held in Salamanca Spain in May 2002 The key topics addressed include seed development germination and dormancy as well as desiccation seed ecology and seed biotechnology

Seeds Sheldon C. Navie, Steve W. Adkins, Sarah Ashmore, 2007 Substantial progress has been made in seed science during the past few years emphasizing its important role in advancing plant biotechnology agriculture plant resource management and conservation Providing comprehensive coverage of the latest seed science research including germination dormancy development and desiccation tolerance this book also details the most advanced methods and practices in seed biology ecology and technology

The Oxford Handbook of Environmental History Andrew C. Isenberg, 2017 The Oxford Handbook of Environmental History draws on a wealth of new scholarship to offer diverse perspectives on the state of the field

Resurrecting the Granary of Rome

Diana K. Davis, 2007-06-15 Tales of deforestation and desertification in North Africa have been told from the Roman period to the present Such stories of environmental decline in the Maghreb are still recounted by experts and are widely accepted without question today International organizations such as the United Nations frequently invoke these inaccurate stories to

justify environmental conservation and development projects in the arid and semiarid lands in North Africa and around the Mediterranean basin Recent research in arid lands ecology and new paleoecological evidence however do not support many claims of deforestation overgrazing and desertification in this region Diana K Davis s pioneering analysis reveals the critical influence of French scientists and administrators who established much of the purported scientific basis of these stories during the colonial period in Algeria Morocco and Tunisia illustrating the key role of environmental narratives in imperial expansion The processes set in place by the use of this narrative not only systematically disadvantaged the majority of North Africans but also led to profound changes in the landscape some of which produced the land degradation that continues to plague the Maghreb today Resurrecting the Granary of Rome exposes many of the political economic and ideological goals of the French colonial project in these arid lands and the resulting definition of desertification that continues to inform global environmental and development projects The first book on the environmental history of the Maghreb this volume reframes much conventional thinking about the North African environment Davis s book is essential reading for those interested in global environmental history

The Encyclopedia of Seeds J. Derek Bewley, Michael Black, Peter Halmer, 2006 This is the first scholarly reference work to cover all the major scientific themes and facets of the subject of seeds It outlines the latest fundamental biological knowledge about seeds together with the principles of agricultural seed processing storage and sowing the food and industrial uses of seeds and the roles of seeds in history economies and cultures With contributions from 110 expert authors worldwide the editors have created 560 authoritative articles illustrated with plentiful tables figures black and white and color photographs suggested further reading matter and 670 supplementary definitions The contents are alphabetically arranged and cross referenced to connect related entries

The Arid Lands Diana K. Davis, 2016-03-25 An argument that the perception of arid lands as wastelands is politically motivated and that these landscapes are variable biodiverse ecosystems whose inhabitants must be empowered Deserts are commonly imagined as barren defiled worthless places wastelands in need of development This understanding has fueled extensive anti desertification efforts a multimillion dollar global campaign driven by perceptions of a looming crisis In this book Diana Davis argues that estimates of desertification have been significantly exaggerated and that deserts and drylands which constitute about 41% of the earth s landmass are actually resilient and biodiverse environments in which a great many indigenous people have long lived sustainably Meanwhile contemporary arid lands development programs and anti desertification efforts have met with little success As Davis explains these environments are not governed by the equilibrium ecological dynamics that apply in most other regions Davis shows that our notion of the arid lands as wastelands derives largely from politically motivated Anglo European colonial assumptions that these regions had been laid waste by traditional uses of the land Unfortunately such assumptions still frequently inform policy Drawing on political ecology and environmental history Davis traces changes in our understanding of deserts from the benign views of the classical era to Christian associations of the desert with sinful

activities to later neo colonial assumptions of destruction She further explains how our thinking about deserts is problematically related to our conceptions of forests and desiccation Davis concludes that a new understanding of the arid lands as healthy natural but variable ecosystems that do not necessarily need improvement or development will facilitate a more sustainable future for the world s magnificent drylands **Australian Journal of Botany** ,2011 *Survival Strategies of Annual Desert Plants* Yitzchak Gutterman,2012-12-06 Annual desert plant species of unrelated taxa in the Negev Desert of Israel have developed complementary sets of adaptations and survival strategies as ecological equivalents with physiological morphological and anatomical resemblances in the various stages of their life cycles After 40 years of research in hot deserts Yitzchak Gutterman provides a comprehensive treatise of such adaptations and strategies In doing so he covers the following topics post maturation primary seed dormancy which prevents germination of maturing seeds before the summer seed dispersal mechanisms with escape or protection strategies cautious or opportunistic germination strategies seedling drought tolerance The day length is an important factor in regulating flowering as well as the phenotypic plasticity of seed germination which is also affected by maternal factors

Unveiling the Magic of Words: A Review of "**Regeneration Of Plants In Arid Ecosystems Resulting From Patch Disturbance**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Regeneration Of Plants In Arid Ecosystems Resulting From Patch Disturbance**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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