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this updated and much revised third edition of seeds physiology of development germination and dormancy provides a thorough overview of seed biology and incorporates much of the progress that has been made during the past fifteen years with an emphasis on placing information in the context of the seed this new edition includes recent advances in the areas of molecular biology of development and germination as well as fresh insights into dormancy ecophysiology desiccation tolerance and longevity authored by preeminent authorities in the field this book is an invaluable resource for researchers teachers and students interested in the diverse aspects of seed biology

seed dormancy and germination are critical processes for the development of plants seed dormancy allows seeds to overcome harsh periods of seedling establishment and is also important for plant agriculture and crop yield several processes are involved in the induction of dormancy and in the shift from the dormant to the germinating state and hormones and regulatory genetic networks are among the critical factors driving these complex processes germination can be prevented by different factors leading to seed dormancy which is highly dependent on environmental cues during and after germination early seedling growth is sustained by catabolism of stored reserves proteins lipids or starch accumulated during seed maturation supporting cell morphogenesis chloroplast development and root growth until photo auxotrophic growth can be resumed

the pilbara region in australia s arid northwest is rich in flora that is suited to extreme temperatures and boom and bust cycles of moisture availability it is also a region important for its natural resources in places where mining activities have finished and the land is under management for ecological restoration there is increasing demand for information about native plant communities and the biology of their seeds pilbara seed atlas and field guide is the first book to combine plant identification with robust scientific criteria for cost effective seed based rehabilitation it describes 103 regional plant taxa and provides guidelines for effective collection cleaning storage and germination of their seeds it addresses issues such as timing of collection quality and viability of seed and dormancy release which are essential for successful restoration programs with photographs to portray the subtle differences and unique features of each species biology this book will be of great use to practitioners in the field including environmental consultants rehabilitation companies commercial seed collectors and government authorities as well as naturalists and people interested in growing the pilbara s remarkable plants

considers best practices for ensuring seed quality and health such as phenotyping and non invasive techniques including hyper spectral imaging and x rays provides a comprehensive review of our understanding of seed biology and the impact of genetic and environmental factors in determining seed longevity dormancy and rate of seedling emergence assesses key challenges facing seed science including the need to mitigate the effects of climate change on seed quality and production

pre harvest sprouting of cereals results in large economic losses each year for producers around the world this volume an outgrowth of the 1982 symposium held in winnipeg canada presents scientific research conducted internationally since 1978 and geared toward solving the problem of pre harvest sprouting its multidisciplinary approach incorporates the perspectives of plant breeders physiologists and biochemists to provide a rounded discussion of the possible alternatives

achieving rapid and uniform stand establishment in crops requires a combination of high quality seeds and appropriate environmental conditions in particular temperature and soil moisture or water potential are the major factors influencing germination in the field in this chapter we focus on the application of population based threshold pbt models to characterize seed germination time courses and how environmental and technological inputs influence them viewing seed quality as a product of the behavior of populations of individual seeds is critical for understanding the causes and consequences of poor performance quantitatively characterizing seed population features enables their use in seed sorting and seed enhancement and provides phenotypes for use in research breeding conservation and restoration we believe that pbt models are essential tools to enable full utilization of new advances in seed technology to improve seed quality and enable successful stand establishment in agriculture or in natural settings

weed management decision support systems dss are increasingly important computer based tools for modern agriculture nowadays extensive agriculture has become highly dependent on external inputs and both economic costs as well the negative environmental impact of agricultural activities demands knowledge based technology for the optimization and protection of non renewable resources in this context weed management strategies should aim to maximize economic profit by preserving and enhancing agricultural systems although previous contributions focusing on weed biology and weed management provide valuable insight on many aspects of weed species ecology and practical guides for weed control no attempts have been made to highlight the forthcoming importance of dss in weed management this book is a first attempt to integrate concepts and practice providing a novel guide to the state of art of dss and the future prospects which hopefully would be of interest to higher level students academics and professionals in related areas

the plant hormone ethylene stress acclimation and agricultural applications presents

current knowledge on our understanding of ethylene perception and signaling its role in the regulation of plant physiological processes and its contribution to acclimation in stressful environments plants regularly face environmental constraints due to their immobile nature in persistently changing environmental conditions several stress factors influence cellular metabolism ultimately causing reduced plant growth and development with a significant loss in agricultural productivity sustainable agriculture depends on the acclimation of plant processes to the changing environment through altered physiological and molecular responses which are controlled by plant hormones including ethylene ethylene interacts with other plant hormones and signaling molecules to regulate several cellular processes plant growth and development and ultimately crop productivity this book begins with an introduction to ethylene before providing a detailed study of the latest findings on the role of ethylene in plants including its role in photosynthetic processes flower development leaf senescence nutrients acquisition and regulation of abiotic stress responses as well as its application in agriculture the book is an ideal guide for researchers exploring plant physiology and biochemistry as well as for those investigating the use of ethylene knowledge in agriculture in persistently changing environmental conditions provides state of the art insights into ethylene regulated photosynthesis growth and productivity in crop plants presents regulatory mechanisms of ethylene action assists in developing physiomolecular strategies for augmenting crop performance in persistently changing environmental conditions

viability and longevity dormancy the release from dormancy the control of dormancy perspective on dormancy environmental control of germination

some sections omitted from 2nd impression of the 105th ed

seed development and germination seed dormancy and germination seed vigor stress and seed germination

this is a major revision of the most definitive book available on the subject of plant propagation

report providing a subjective assessment of the scope applicability and overall reliability of existing published references related to natural regeneration of white engelmann and black spruce in north america and a synopsis of references on the subject the references are listed alphabetically by author for each of 563 references based on a dbase iv database coded according to 105 keywords the database allows the user to search geographically by species of spruce by forest section within canada or by any of the keywords listed the emphasis is on white spruce in a boreal mixedwood setting but also includes information on natural regeneration of engelmann spruce and upland black spruce plus a limited amount of norway spruce most of the references are from the 1990s

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