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# Paper Date Palm

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## HICKS PHELPS

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The Date Palm and Its Utilization in the Southwestern States  
Cambridge University Press  
Sustainable

development is an important concept underlying many of today's renewable resource policies. Agro-based resources, such as wood, make up a significant

portion of modern renewable resources. While probably the most familiar example, wood is only one type of agromass in the vast world of photosynthetic resources.

Paper and Composites from Agro-Based Resources explores the great number of options available for producing paper and composites. Using sound ecosystem management principles, the book discusses strategies for obtaining fiber from plant-based resources including agricultural crops and residues, grasses, and recycled agro-based resources, in addition to

wood. The Encyclopedia of Fruit and Nuts Springer Science & Business Media This important 2-volume reference book is the first comprehensive resource reflecting the current global status and prospects of date palm cultivation by country. This volume covers Asia and Europe. The Asian countries included are: Iran, Saudi Arabia, Iraq, Pakistan, Oman, Yemen,

Israel, Kuwait, Qatar, Bahrain, Syria, Palestine and India. Europe is represented by Spain. Topics discussed are: cultivation practices; genetic resources and breeding; conservation and germplasm banks; cultivar classification and identification based on morphological and molecular markers; micropropagation and progress toward scale-up production; and advances in dates

processing and marketing. Chapters are supported by tables and color photographs. Appendixes summarize traits and distribution of major cultivars, commercial resources of offshoots and in vitro plants; and institutions and scientific societies concerned with date palm.

Postharvest Physiology, Processing and Packaging  
New India Publishing  
Date Palm

Fiber Composites Processing, Properties and Applications  
Springer Nature  
Date Palm Biotechnology  
Date Palm  
Fiber Composites Processing, Properties and Applications  
Of the many varieties of date palms, the species Phoenix dactylifera Linn. is cultivated extensively and traded and consumed worldwide.  
Dates: Production, Processing, Food, and Medicinal Values draws

from a broad spectrum of contributors to present a comprehensive survey of this particular species. The book explores a range of essential facets of what many consider to be a wonder plant—from its cultivation to its potential for medicinal purposes. Divided into four parts, the book begins by examining cultural practices and their implications for date quality. The contributors discuss tissue

culture studies, farm water management, mechanization approaches in pollination and harvesting operations, and marketing aspects. The second section focuses on postharvest operations such as drying and explores alternatives for methyl bromide fumigation and value-added products. It also reviews biofuel production from by-products and discusses the issue of waste

generated from industry. The third part of the book highlights the physical, chemical, and structural characteristics of dates. It reviews fermentative products that use dates as substrate, discusses the fruits as a substitute for added sugar in food, and explores date palm feeding to livestock. The final section discusses the possibilities for nutritional and medicinal use and reviews the use of dates in

indigenous medicine. Exploring essential properties and agricultural implications, this volume is a reliable resource for understanding the many aspects of the Phoenix *dactylifera* Linn. Partial Thermostasy of the Growth Center of the Date Palm. The Inhibitive Effect of Direct Sunlight on the Growth of the Date Palm Springer Science & Business Media Palms are

monocots, Angiosperms, belonging to the family Palmae (Arecaceae), perennials having woody stems. Palmae (Arecaceae) family comprised of about six subfamilies, 200 genera and 2,700 species that are distributed all over the tropical, subtropical and Mediterranean landscape. Palms are diverse (ecologically and morphologically) group of plants. Ornamental

palms are important component of landscape as well as interiorscapes. Additionally, these plants are good source of food, feed and shelter with numerous other commercial benefits. Likewise other trees and crops, landscape and field nurseries of palms are also subjected to various threats of insect pest and diseases (caused by different plant pathogens). Amongst fungal

diseases leaf spots, leaf blights, Fusarium wilts, butt rots, bud rots, root rots, lethal yellowing and decline of palms are major growth constraints of palm growth. In developing countries very little attention has been paid on the etiology and management of these fungal diseases on ornamental palms. Accurate diagnosis and reliable management plan of palm fungal

diseases usually requires expertise in both modern and advanced plant pathological approaches. Historically it was general belief that plant pathogens are not associated with human diseases. Since 19th century, several clinical reports are available indicating many plant pathogenic fungi (*Aspergillus* spp., *Penicillium* spp., *Alternaria* spp.,

*Trichoderma* spp., *Fusarium* spp., *Curvularia* spp. and *Colletotrichum* Spp) as novel agents of human diseases. Besides the association of fungal plant pathogens infecting ornamental palms, harbouring any of earlier mentioned or other fungal species (capable of causing certain diseases in human beings or pets) by the ornamental palms cultivation (either grown

indoor or outdoor) is an important area of research to be explored and addressed thoroughly. This book will provide the deep information regarding major fungal diseases of ornamental palms, their symptoms, disease identification, and etiology and management strategies. This book will also provide unique knowledge regarding the ornamental palms harbouring

kinds of human fungal pathogens and their practical management at domestic and commercial scale, in order to make cultivation of these plant more beneficial for humans, animals and environment. *Agriculture Handbook* BoD – Books on Demand This book is the first volume of a comprehensive assemblage of contemporary knowledge relevant to genomics and

other omics in date palm. Volume 1 consists of 11 chapters arranged in 3 parts grouped according to subject. Part I, Biology and Phylogeny, focuses on date palm biology, evolution and origin. Part II, Biodiversity and Molecular Identification, covers conformity of in vitro derived plants, molecular markers, barcoding, pollinizer genetics and gender determination. Part III,

Genome Mapping and Bioinformatics , addresses genome mapping of nuclear, chloroplast and mitochondrial DNA, in addition to a chapter on progress made in date palm bioinformatics . This volume represents the efforts of 30 international scientists from 10 countries and contains 78 figures and 30 tables to illustrate presented concepts. Volume 2 is published under the

title: Omics and Molecular Breeding. *Agricultural Biotechnology Materials Research Forum LLC* This book covers the recent research advances on the utilization of date palm fibers as a new source of cellulosic fibers that can be used in the reinforcement of polymer composites. It discusses the competitive mechanical, physical, and chemical properties which make date palm fibers stand

out as an alternative to other fibers currently used in the natural fiber composites market. This volume will be useful to researchers working on natural fiber composites and fiber reinforced composites looking to develop green, biodegradable and sustainable components for application in automotive, marine, aerospace, construction, wind energy and consumer goods sectors.

**Report of the Date Grower's Institute Held in Coachella Valley, California**  
CRC Press  
Tropical and sub-tropical fruits have gained significant importance in global commerce. This book examines recent developments in the area of fruit technology including: postharvest physiology and storage; novel processing technologies applied to



fruits; and in-depth coverage on processing, packaging, and nutritional quality of tropical and sub-tropical fruits. This contemporary handbook uniquely presents current knowledge and practices in the value chain of tropical and subtropical fruits world-wide, covering production and post-harvest practices, innovative processing technologies, packaging, and quality management. Chapters are devoted to each major and minor tropical fruit (mango, pineapple, banana, papaya, date, guava, passion fruit, lychee, coconut, logan, carombola) and each citrus and non-citrus sub-tropical fruit (orange, grapefruit, lemon/lime, mandarin/tangerine, melons, avocado, kiwifruit, pomegranate, olive, fig, cherimoya, jackfruit, mangosteen). Topical coverage for each fruit is extensive, including: current storage and shipping practices; shelf life extension and quality; microbial issues and food safety aspects of fresh-cut products; processing operations such as grading, cleaning, size-reduction, blanching, filling, canning, freezing, and drying; and effects of processing on nutrients and

bioavailability. With chapters compiled from experts worldwide, this book is an essential reference for all professionals in the fruit industry. Annual Report of the Nigerian Institute for Oil Palm Research Springer  
Crop production depends on the successful implementation of the soil, water, and nutrient management technologies. Food production by the year 2020

needs to be increased by 50 percent more than the present levels to satisfy the needs of around 8 billion people. Much of the increase would have to come from intensification of agricultural production. Importance of wise usage of water, nutrient management, and tillage in the agricultural sector for sustaining agricultural growth and slowing down environmental degradation calls for

urgent attention of researchers, planners, and policy makers. Crop models enable researchers to promptly speculate on the long-term consequences of changes in agricultural practices. In addition, cropping systems, under different conditions, are making it possible to identify the adaptations required to respond to changes. This book adopts an interdisciplinary approach

and contributes to this new vision. Leading authors analyze topics related to crop production technologies. The efforts have been made to keep the language as simple as possible, keeping in mind the readers of different language origins. The emphasis has been on general descriptions and principles of each topic, technical details, original research work,

and modeling aspects. However, the comprehensive journal references in each area should enable the reader to pursue further studies of special interest. The subject has been presented through fifteen chapters to clearly specify different topics for convenience of the readers. Etiology and Integrated Management of Economically Important Fungal Diseases of

Ornamental Palms  
Springer Nature  
This major work presents the first comprehensive survey on entomological studies in Iran from prehistoric periods up to modern times. This concise collection and excerpts from the literature are complemented by over 130 color figures of superb quality showing insects and their habitats. Volume 1 Faunal Studies concentrates on the

systematic taxonomy of Iranian insects. It also lists all members of Rhopalocera (butterflies) and four families of Heterocera (moths). An introductory chapter is reserved for basic information on the geography, vegetation and climate of Iran. Volume 2 Applied Entomology starts with a chapter on the history of entomology in Iran until current times. Several chapters

cover agricultural aspects of entomology, such as destructive insects, biological control or cultivars exhibiting resistance to insect pests. Other chapters are on medical entomology, e.g. mosquito-, sandfly- or flea-borne diseases and human myiasis. **Advances in Irrigation Agronomy** Springer Nature Consists of separately published or reprinted U.S.

federal, North Dakota and Minnesota government bulletins and publications on plant rust, 1904-1916. Propagation of Horticultural Crops CRC Press This work integrates basic biotechnological methodologies with up-to-date agricultural practices, offering solutions to specific agricultural needs and problems from plant and crop yield to animal husbandry. It presents and

evaluates the limitations of classical methodologies and the potential of novel and emergent agriculturally related biotechnologies.

Reynold's Code ; International Nautical Telegraph for the Use of Men-of-war and Merchant Vessels

Springer Science & Business Media  
This important reference book is the first comprehensive resource worldwide

that reflects research achievements in date palm biotechnology, documenting research events during the last four decades, current status, and future outlook. This book is essential for researchers, policy makers, and commercial entrepreneurs concerned with date palm. The book is invaluable for date palm biotechnology students and specialists. This monument is written by an

international team of experienced researchers from both academia and industry. It consists of five sections covering all aspects of date palm biotechnology including A) Micropropagation, B) Somaclonal Variation, Mutation and Selection, C) Germplasm Biodiversity and Conservation, D) Genetics and Genetic Improvement, and E) Metabolites and Industrial Biotechnology. The book

brings together the principles and practices of contemporary date palm biotechnology. Each chapter contains background knowledge related to the topic, followed by a comprehensive literature review of research methodology and results including the authors own experience including illustrative tables and photographs. *Processing, Properties and Applications* Springer Set includes

revised editions of some nos. *Bulletin* FAO Date palm, Phoenix dactylifera L. (Arecales: Arecaceae), is an important palm species cultivated in the arid regions of the world since pre-historic times and traditionally associated with the life and culture of the people in the Middle-East and North Africa which are the pre-dominant date palm growing regions worldwide. The Food and

Agriculture Organization of the UN estimates that there are over 100 million date palms with an annual production of over 7.5 million tonnes A recent report on the arthropod fauna of date palm, enlists 112 species of insects and mites associated with date palm worldwide including 22 species attacking stored dates. Enhanced monoculture of date palm in several date palm

growing countries coupled with climate change, unrestrained use of chemical insecticides and extensive international trade is likely to impact the pest complex and the related natural enemies in the date agro-ecosystems. In view of the importance of date palm as an emerging crop of the future and the need to develop and deploy ecologically sound and socially

acceptable IPM techniques, this book aims to comprehensively address issues related to the biology and sustainable management of major insect and mite pests of date palm by assessing the current IPM strategies available, besides addressing emerging challenges and future research priorities. The issues pertaining to the role of semiochemicals in date palm

IPM involving new strategies revolving around “attract and kill” and “push-pull” technologies, phytoplasmas and their insect vectors with implications for date palm, innovative methods for managing storage pests of dates and knowledge gaps in devising sustainable strategies for the management of red palm weevil, *Rhynchophorus ferrugineus* (Olivier) are also

addressed  
**Fruit Crops**  
 Springer  
 Nature  
 As global  
 pressure on  
 water  
 resources  
 intensifies, it  
 is essential  
 that scientists  
 understand  
 the role that  
 water plays in  
 the  
 development  
 of crops and  
 how such  
 knowledge  
 can be applied  
 to improve  
 water  
 productivity.  
 Linking crop  
 physiology,  
 agronomy and  
 irrigation  
 practices, this  
 book focuses  
 on eleven key  
 fruit crops  
 upon which

millions of  
 people in the  
 tropics and  
 subtropics  
 depend for  
 their  
 livelihoods  
 (avocado,  
 cashew, Citrus  
 spp., date  
 palm, lychee,  
 macadamia,  
 mango, olive,  
 papaya,  
 passion fruit  
 and  
 pineapple).  
 Each chapter  
 reviews  
 international  
 irrigation  
 research on  
 an individual  
 fruit crop,  
 identifying  
 opportunities  
 for improving  
 the  
 effectiveness  
 of water  
 allocation and  
 encouraging

readers to link  
 scientific  
 knowledge  
 with practical  
 applications.  
 Clearly written  
 and well  
 illustrated,  
 this is an ideal  
 resource for  
 engineers,  
 agronomists  
 and  
 researchers  
 concerned  
 with how the  
 productivity of  
 irrigated  
 agriculture  
 can be  
 improved, in  
 the context of  
 climate  
 change, and  
 the need for  
 growers to  
 demonstrate  
 good irrigation  
 practices.  
Emerging  
Issues CRC  
 Press



This volume is the first in the Advances in Archaeological and Museum Science series sponsored by the Society for Archaeological Sciences. The purpose of this biennial series is to provide summaries of advances in closely defined topics in archaeometry, archaeological science, environmental archaeology, preservation technology and museum conservation. The Society for Archaeological

Sciences (SAS) exists to encourage interdisciplinary collaboration between archaeologists and colleagues in the natural and physical sciences. SAS members are drawn from many disciplinary fields. However, they all share a common belief that physical science techniques and methods constitute an essential component of archaeological field and laboratory studies. The

General Editors wish to express their appreciation to Renee S. Kra and Frances D. Moskovitz of Radiocarbon for their special expertise and assistance in the production of this volume. We also appreciate the contribution of the two reviewers for their excellent comments and suggestions. The General Editor responsible for undertaking the development of this volume was R. E.

Taylor.  
*Dates* CABI  
 This  
 publication  
 provides a  
 basic  
 introduction to  
 date palm  
 propagation,  
 production  
 and protection  
 techniques.  
 Chapters  
 cover:  
 botanical and  
 systematic  
 description,  
 origin,  
 geographical  
 distribution  
 and nutritional  
 value,  
 economic  
 importance,  
 climatic  
 requirements,  
 orchard  
 management,

harvesting,  
 and diseases  
 and pests of  
 date palm.  
**Volume 1:  
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 Studies.**  
**Volume 2:  
 Applied  
 Entomology**  
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 Sons  
 Palm by-  
 products  
 represent an  
 economical  
 resource for  
 the  
 sustainable  
 development  
 of rural areas  
 in many  
 countries of  
 the world. The  
 book focuses  
 on the  
 utilization of

palm by-  
 products in  
 the following  
 areas: Wood  
 Alternatives  
 and Panels,  
 Sustainable  
 Energy and  
 Fertilizers,  
 Bio-  
 Composites,  
 Biomedicine  
 and  
 Biotechnology,  
 Fiber, Paper,  
 and Textile,  
 Food  
 Applications,  
 Design and  
 Architecture.  
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 Utilization*  
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 With special  
 reference to  
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