



Spice Crops

Scott C. Dulebohn



Spice Crops:

Spice Crops E. A. Weiss, 2002 Many plants have been used for centuries as sources of spices for culinary use Recently there has been an upsurge of interest in diversifying the range of such spices and in their agronomy as alternative crops in both temperate and tropical countries This book provides a scientific review and guide to the botany and agronomy of the major families of plants used for the production of spices Contents include world production and trade and chapters on Cruciferae Lauraceae Leguminosae Piperaceae Solanaceae Umbelliferae Zingiberaceae and Minor crops **Cultivation of**

Spice Crops Azhar Ali Farooqi, B. S. Sreeramu, K. N. Srinivasappa, 2005 Spices constitute an important group of agricultural commodities which since antiquity have been used for flavouring foods Some species are used in the pharmaceutical perfumery cosmetics and related industries and others possess colourant preservative antioxidant antiseptic and antibiotic properties India is one of the leading spice producing and exporting countries in the world In addition large quantities of spices are consumed within the country for seasoning of food and for several other purposes No other country in the world has such a diverse variety of spice crops as India This book reflects the intensive research carried out on this group of 42 spice crops since 1971 The improvement in agro techniques and the release of many high yielding varieties It provides exhaustive information on all aspects of cultivation harvesting and processing of each crop and will be an invaluable aid to students teachers and growers of spice crops both individual and corporate **Underexploited Spice Crops** Amit Baran Sharangi, Pemba H. Bhutia, Akkabathula Chandini Raj, Majjiga

Sreenivas, 2018-10-03 Spices provide our food with nutraceutical value rather than actual nutrition But apart from the popular and major spices there are several other spices which in spite of their enormous contribution to human health remain underexploited or underutilized This new volume *Underexploited Spice Crops Present Status Agrotechnology and Future Research Directions* is a valuable compilation of agrotechniques coupled with background information research works and scientific discussions on these spices It will include in depth narration on underexploited spice crops as products influencing present day the global export market and the renewed interest in these crops throughout the world The volume deals with the scientific approach of growing underexploited spices with the intention of popularizing them Separate chapters on the importance of each spice methods of growing and harvesting and recent research from around the world along with future strategies are covered **Diseases Of Spice Crops** L. Darwin Christdhas Henry, 2022-08-09 A spice is a

seed fruit root bark or any other plant parts Spices give aroma color flavor taste and texture to food Each spice has its unique specific compounds that impart these sensual qualities Spices are often used in medicines religious rituals cosmetics and perfume production In this book the diseases affecting 29 spice crops have been dealt with Description about each crop and the produce as well as the symptoms and possible control measures of the diseases attacking the crop is described in detail A number of color photographs of the crops and produce and symptoms manifested by the diseases have been given Further

general characters of different genera of fungi causing the diseases along with figures depicting the life cycle of the fungal pathogens have also been included *Spice Crops Production Technology* P.C. Das, 2014-07-01 Spices are very important as food and as medicine and they bring out the unique natural taste of cuisines and could be used to change the look of the food to make it more attractive in colour The book is written in simple and lucid language to provide basic information about cultivation of spice crops

Botany And Breeding Of Spice Crops A.B. Sharangi, Md. Nasim Ali, Syandan Sinha Ray, 2021-10-09 The book throws insights on the concepts of origin and domestication of spice crops There are elaborative description regarding different modes of reproduction of plants along with crop specific techniques regarding emasculation and pollination techniques Conventional plant breeding methods has categorically been explained as these concepts would help spice breeders to choose the appropriate breeding tool Detailed idea from tissue culture to genomics assisted breeding especially the theory and applications of various omics viz metabolomics genomics transcriptomics proteomics etc has been elaborated Finally different spice breeding information has been comprehensively documented in this book with some useful references to future directions of spice breeding throughout the world The book shall pave the way for new age researchers faculties plant breeders policy makers and amateur readers towards theoretical and empirical studies as well

Plantation and Spices Crops Chadwick Hillam, 2017-10 A plantation is a large scale farm that specializes in cash crops and cultivated on an extensive scale in a large contiguous area owned and managed by an Individual or a company The crops include tea coffee rubber cocoa coconut arecanut oil palm palmyrah cashew cinchona etc These plantation crops are high value commercial crops of greater economic importance and play a vital role in a nation economy Probably the single most important factor a plantation has on the local environment is the site where the plantation is established If natural forest is cleared for a planted forest then a reduction in biodiversity and loss of habitat will likely result In some cases their establishment may involve draining wetlands to replace mixed hardwoods that formerly predominated with pine species If a plantation is established on abandoned agricultural land or highly degraded land it can result in an increase in both habitat and biodiversity A planted forest can be profitably established on lands that will not support agriculture or suffer from lack of natural regeneration However the prospects of spice crop production are bright because of its high market demand The most common type of spice crops grown are onion garlic ginger black pepper hot pepper celery shallots leek bay leaf and tanglad Among these crops however only onion garlic ginger black pepper and hot pepper are grown commercially because of their high market demand and usefulness Spices are primarily used as food seasoning In addition to their culinary uses spices are also utilized as flavoring agent in beverages active ingredient in syrubic medicines coloring agent of textiles and an important constituent in cosmetic and perfume products This Book *Plantation and Spices Crops* presents an overview of the importance of plantation crops and spice plants as well as the current status of the cultivation of these crops It covers plant production aspects such as climate and water requirements planting fertilizers irrigation weeding and hoeing and harvesting processing

and pest and disease management This book is intended for advanced graduate students and practitioners of agriculture and horticulture and those who are involved in the production and promotion of plantation crops spice plants and essential oil and medicinal plants **Biotechnology for Fruit, Vegetable and Spice Crops** Pankaj Kumar,Ajay Kumar Thakur,Dinesh Kumar Srivastava,2025-08-21 Biotechnology has revolutionized horticulture by enhancing the productivity resilience and nutritional quality of fruit vegetable and spice crops This comprehensive volume provides an in depth exploration of cutting edge biotechnological advancements that are reshaping horticultural science From genomics driven crop improvement to the development of functional foods this book presents a meticulously curated compilation of research and methodologies addressing key challenges and opportunities in modern horticulture By integrating molecular techniques plant microbe interactions and bioprocess innovations this book provides a unique perspective on sustainable and precision driven horticultural practices Key Features Insights into genomic approaches for understanding abiotic stress tolerance and developing climate resilient varieties Advances in tissue culture marker assisted selection and genome editing for apple grapevine and potato breeding Molecular and biocontrol strategies for tackling major threats such as root rot disease in apples Applications of soilless cultivation techniques and plant growth promoting rhizobacteria PGPR to optimize crop yield and quality Biotechnological tools for developing probiotic enriched fruits and vegetables and the valorization of non grape fruit wines With contributions from leading researchers this book serves as an essential reference for graduate students academics and professionals in plant biotechnology horticulture and food science It provides a valuable resource for those seeking to harness the power of biotechnology to drive sustainable innovation in horticultural crop production

Handbook on Spices and Condiments (Cultivation, Processing and Extraction) H. Panda,2010-10-01 The term Spice and Condiments applies to natural plant or vegetable products or mixtures in whole or ground form which are used for imparting flavour aroma and piquancy to the food items Spices and condiments are a major commercial crop in India and earn a major part of foreign exchange annually They have been the backbone of agricultural industry The importance of spices and condiment in dietary medicinal and other uses and their commercial importance are immense India is known the world over as the home of spices Thus spices are an important group of agricultural goods which are virtually indispensable in the culinary art Spice processing includes different steps spice cleaning spice reconditioning and spice grinding Some spices were also used for preserving food like meat for a year or more without refrigeration In the 16th century cloves for instance were among the spices used to preserve food without refrigeration Cloves contain a chemical called eugenol that inhibits the growth of bacteria It is a natural antibiotic It is still used to preserve food like Virginia Ham Likewise later mustard and ground mustard were also found to have preservative qualities India alone contributes 25 30 % of the total world trade in spices It may be interesting to note that nine spices namely pepper ginger clove cinnamon cassia mace nutmeg pimento allspice and cardamom alone contributed as much as 90% of the total world trade Pepper is the most

important spice in the world and so also of India This book basically deals with brief history of spices uses of spices world trade in spices area production of spices in India area and production of spices in India major and minor spices of India spice processing quality issues with spices bird chillies and Tabasco chillies basil or sweet basil seasoning blend duplication and tricks sauces and gravies snack seasonings quality issues with spices etc This book is a single compendium which deals with all aspects and facts of spices and condiments which may meet the requirements of all those handling them at various stages from harvesting to their end use This book contains post harvest management the potentials of genetic engineering high production technology in spices with plantation and processing of various spices and condiments such as vanilla turmeric tamarind saffron black pepper onion mint ginger garlic curry leaf coriander etc Pests and Diseases in Spices, Plantation and Tuber Crops S. Parthasarathy,R. Kalaivanan,R. Sangavi,P. Lakshmidēvi,2025-06-06 Effective management of pests and diseases is crucial for the successful and profitable cultivation of crops To address this need this book compiles essential information and offers a simple approach to pest disease and nematode diagnosis making it easier for students and non specialists to tackle the challenges they face in this field The subject matter details pest management in plantation spice and tuber crops using methods like regulatory physical cultural chemical biological and integrated pest management This book is aimed at students pursuing Agriculture Horticulture Botany Forestry and Zoology and non specialists such as government officials agricultural workers horticulturists extension workers and professionals in the corporate sector Print edition not for sale in India

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