

SMALL MILLETS IN GLOBAL AGRICULTURE



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Small Millets In Global Agriculture

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Small Millets In Global Agriculture:

Small Millets in Global Agriculture Ken W. Riley, 1989 **Small Millets in Global Agriculture** A. Seetharam, G. Seetharam, International Small Millets, K. W. Riley, 1989 *Small Millets in Global Agriculture* A. Seetharam, G. Harinarayana, Ken W. Riley, 1990-01 The transformation of agriculture to more productive systems has often been accompanied by increased production of fewer crops Concurrently the area and production of a great diversity of traditional crops have declined Yet in many parts of the world these traditional crops play an important role in maintaining stable and sustainable forms of agriculture **Small Millet Grains** Sarita Srivastava, 2022-06-21 This book discusses the various aspects of the health and nutritional benefits of the wonder grains small millets It introduces the readers to the historical use of small millet grains in the diet of humans It further discusses the consumption and strategies to improve the global production of these nutrient dense grains The book outlines how the inclusion of small millet as a staple could prevent nutritional deficiency diseases hidden hunger and non communicable diseases Different chapters of the book provide information about the nutritional profile of popular small millet grains It also includes information about the effects of processing on the dietary factors in the grains It describes the traditional food products as well as unconventional products from small millet It advises the readers on the best ways to consume this super food The book also highlights the role of small millet as a functional food It highlights how this food can address the challenge of nutritional security Millets and Sorghum Jagannath V. Patil, 2017-03-06 Millets and sorghum are extremely important crops in many developing nations and because of the ability of many of them to thrive in low moisture situations they represent some exciting opportunities for further development to address the continuing and increasing impact of global temperature increase on the sustainability of the world's food crops The main focus of this thorough new book is the potential for crop improvement through new and traditional methods with the book's main chapters covering the following crops sorghum pearl millet finger millet foxtail millet proso millet little millet barnyard millet kodo millet tef and fonio Further chapters cover pests and diseases nutritional and industrial importance novel tools for improvement and seed systems in millets Millets and Sorghum provides full and comprehensive coverage of these crucially important crops their biology world status and potential for improvement and is an essential purchase for crop and plant scientists and food scientists and technologists throughout the developed and developing world All libraries in universities and research establishment where biological and agricultural sciences are studied and taught should have copies of this important book on their shelves *Minor Millets* Dinesh Chandra Joshi, Amit Kumar Singh, Salej Sood, Manoj Prasad, 2025-05-14 This book on minor millets provides a detailed account of their crop biology agronomy genetics breeding genomic resources production constraints and value addition The potential of minor millets in addressing food and nutritional insecurities is well recognized Government of India declared millets as Shree Anna as they are a powerhouse of nutrients and possess strong climate resilience properties Minor millet species such as finger

millet foxtail millet barnyard millet little millet proso millet kodo millet fonio millet and teff are the oldest cultivated crops that are used for both food and fodder in semi arid regions of Asia and Africa In the recent times they have become important due to their unparalleled nutritional profile recognized nutraceutical properties versatile environmental adaptability and ability to flourish in low input agriculture and organic cultivation However their cultivation and consumption are declining due to lack of awareness and unavailability of literature to a broad range of audience This book serves as reference material for researchers and students engaged in genetic improvement biochemistry processing and value addition of minor millets

Millets and Millet Technology Anil Kumar, Manoj Kumar Tripathi, Dinesh Joshi, Vishnu Kumar, 2021-06-30 Millets are small grained annual warm weather cereal The millets offer both nutritional and livelihood security of human population and fodder security of diverse livestock population in dryland region of India Millets are highly nutritious they are known as health foods especially for control of diabetes and mineral deficiencies One of the major factors for declining consumption of millets is the lack of awareness of their nutritive value and inconvenience of their preparation This book covers both chemistry and novel technology for millet processing and development It summarizes the latest information on millets their nutritional and health benefits historical perspective utilization R D efforts present status and the importance being given by policy makers for promoting millets for sustainable agriculture and healthy society The book is compiled by various experts keeping in view syllabi of different research institutions researchers students as well requirement of the industry It will serve as instructional material for researchers in food science microbiology process engineering biochemistry biotechnology and reference material for those working in industry and R D labs

Global Climate Change: Resilient and Smart Agriculture V. Venkatramanan, Shachi Shah, Ram Prasad, 2020-09-18 This book provides essential insights into methods and practices of Climate smart Agriculture which is driven by the principles of climate resilience and smart resource use in agricultural production Climate smart agriculture is a key policy instrument for achieving poverty eradication and a hunger free world as well as mitigating the effects of climate change This book discusses in detail climate smart agricultural technologies and practices that can reduce the vulnerability of agricultural systems improve the livelihoods of farmers and other stakeholders and reduce the greenhouse gas emissions from crop production and livestock husbandry The agriculture forestry and other land use AFOLU sector produces roughly 10 12 gigatons of CO₂ equivalent per year therefore sustainable practices for agriculture and related land use hold immense potential to mitigate climate change The potential impacts of climate variability and climate change on agriculture are extensively documented and articulated especially with regard to global and national environmental agendas that call for innovation transformation and climate resilient advances in agriculture As the book demonstrates climate smart agriculture offers an excellent tool for boosting agricultural output to feed the growing global population for reducing greenhouse gases emissions from agriculture and other land use and for protecting agricultural production systems from the impending dangers of climate change

Millets: Crops for Climate Resilience and

for Food and Nutritional Security Stanislaus Antony Ceasar, Suprasanna Penna, Carlos W. Piler Carvalho, Shri Mohan Jain, 2025-09-30 This edited volume discusses each millet its climate resilience and nutrition supplementation properties in detail and help to understand and think forward the future studies Millets often called Nutri cereals are easily digestible gluten free having low glycemic index and are high in antioxidants The ever changing global climate and water shortages also direct humans to look for alternative food for stable cereals like rice Millets are a good fit for harsh climates especially water and fertilizer shortages The major reasons for decrease in the consumption of millets are the lack of production techniques lack of awareness of nutritional merits and lack of processing technologies of millets It has become imperative to reorient the efforts on the millets crop to generate demand through value addition of processed foods nutritional evaluation and creation of awareness so that human and animal health can be maintained sustainably Millets have the potential nutritional pharmaceutical properties that fulfill the requirement of the habitat and obviate dependence on major food crops Millets will become alternative crops to feed ever growing new mouth to feed This book provides a comprehensive source of theoretical and practical updates about climate resilience and the nutrition supplementation roles of millets It also covers the production marketing and value added product development of millets This book is a valuable resource for scientists teachers agriculturists capacity builders the food industry and policymakers and will serve as additional reading material for undergraduate and postgraduate students of life science

Proceedings Small Millets in Global Agriculture, 1989

Overview and taxonomy Importance germplasm and varietal improvement in Asia and in Africa Physiology cropping systems production technology and pests and diseases in Asia Cropping systems production technology pests and diseases of small millets in Africa Food and fodder uses

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