

Enhancing Potato Seed Production Using Rapid Multiplication Techniques

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Introduction

Potato is regarded as a high-potential food security crop due to its ability to provide high yield and quality product per unit input with a short crop cycle (mostly <120 days). The national average yield at present is approximately 10.5 t/ha, which is lower than the world's average yield of 17 t/ha (Muthoni et al., 2011). The potential of potato crop has not been adequately exploited. The crop is mainly grown at high altitudes of 1,500–3,000 masl by small-scale farmers, who account for over 90% of the production. Most of the production is under rainfed conditions and carried out in scattered patches of intensive small-scale agriculture (McArthur, 1989).

There are a number of production problems. The major ones are unavailability and high cost of seed tubers; lack of well-adapted cultivars to the major agro-ecological zones; suboptimal agronomic practices; the prevalence of diseases and insect pests; and inadequate storage, transportation, and marketing facilities. To address these problems, the Ethiopian Institute Agricultural Research (EIAR)—the then Institute of Agricultural Research—in collaboration with the International Potato Center (CIP), initiated potato research. The research had as its main objectives to

- develop adaptable and high-yielding potato cultivars with good resistance to biotic and abiotic stresses;
- identify the best agronomic practices and storage systems;
- adopt the use of botanical seed as an alternative propagation method;
- develop seed production system in the country; and
- train farmers and other stakeholders.

Among potato production problems, a major bottleneck that contributes to low yield in Ethiopia is the lack of healthy and quality seed tubers in the required quantity and quality (Berga and Gebremedhin, 1994). There is no formal seed system operating for clean/healthy potato seed multiplication and distribution in Ethiopia. Hirpa et al. (2010) reported that potato seed production in Ethiopia is basically informal, which in most cases operates by recycling planting materials

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Annelies Wilder-Smith



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Potato Production Worldwide Mehmet Emin Caliskan, Allah Bakhsh, Khawar Jabran, 2022-10-22 Potato is a crop grown on all inhabited continents of the globe. It is included in the top five crops of the world used as staple food in several countries and the number of people daily consuming the potato may surpass one billion. Despite the high quantities of seed potato produced worldwide, there are yield gaps due to challenges such as abiotic stresses, pests, climate change, and poor production practices. A region-wide critical analysis of yield declining factors can help formulate management strategies that can improve potato yields. Bridging yield gaps in potato will ultimately ensure the role of this crop in securing current and future food security. *Potato Production Worldwide* presents information on this global crop from its history, morphology, and taxonomy to the growth and development of the potato crop, including the latest strategies in addressing today's biotic and abiotic challenges. This book identifies the reasons for yield gaps in various potato production regions of the world as well as presenting the best production practices, pest management strategies, and approaches to deal with climate change from the perspective of potato production. Chapters provide important insights into potato production cultures and approaches in the major potato production countries. *Potato Production Worldwide* will be a valuable resource for researchers, scientists, and students seeking a comprehensive view of successful potato production. Provides comprehensive information on the origin, history, taxonomy, morphology, ecophysiology, growth, and development of the potato. Addresses production practices including irrigation, nutrient management, harvesting, and post-harvest techniques. Explores the impact of abiotic stresses (drought, chilling, salinity, etc.) and their management.

Potato and Sweetpotato in Africa Jan Low, Moses Nyongesa, Sara Quinn, Monica Parker, 2015-10-28 Sweetpotato and potato are expanding faster than any other food crops in sub-Saharan Africa. There is growing investment in research to address bottlenecks in value chains concerning these two crops and growing interest from the private sector in investing in them. This book addresses five major themes on sweetpotato and potato: policies for germplasm exchange, food security and trade in Africa, seed systems, breeding, and disease management; post-harvest management; processing technologies; and marketing systems, nutritional value, and changing behaviours.

Focus on partnerships: Enriching the science, expanding the reach, enhancing the impact, **Potato Seed Production for Tropical Africa**, **Seed potato technology** P.C. Struik, S.G. Wiersema, 2023-09-04 This book provides basic knowledge on how to produce, multiply, and use propagation material in seed potato production and supply systems worldwide. Healthy, vigorous seed tubers are essential in potato production. Producing them used to be expensive and difficult. Multiplication rates in the field are low; seed-borne diseases are numerous, and seed tubers lose quality during storage between growing seasons. Recently, novel methods of multiplication have revolutionised the seed potato industry. This has resulted in a diversity of seed production systems adjusted to the local potential and needs. This book summarises the current knowledge and assesses the efficient use of modern technology in different stages of seed production. It describes in detail

what seed quality means how pre basic seed can be produced how this can be multiplied and how seed health is maintained It also describes diverse examples of seed supply systems in different regions of the world The book is aimed at agronomists farm advisors seed producers breeders and at those involved in seed policies seed programme development and seed trade Also recommended for international students in agronomy horticulture and plant breeding *Enhancing Seed Production Capacity of Small-scale Farmers* P. Okori,2001 Root, Tuber and Banana Food System Innovations Graham Thiele,Michael Friedmann,Hugo Campos,Vivian Polar,Jeffery W. Bentley,2022-04-06 This open access book describes recent innovations in food systems based on root tuber and banana crops in developing countries These innovations respond to many of the challenges facing these vital crops linked to their vegetative seed and bulky and perishable produce The innovations create value food jobs and new sources of income while improving the wellbeing and quality of life of their users Women are often key players in the production processing and marketing of roots tubers and bananas so successful innovation needs to consider gender These crops and their value chains have long been neglected by research and development hence this book contributes to filling in the gap The book features many outcomes of the CGIAR Research Program in Roots Tubers and Banana RTB which operated from 2012 21 encompassing many tropical countries academic and industry partners multiple crops and major initiatives It describes the successful innovation model developed by RTB that brings together diverse partners and organizations to create value for the end users and to generate positive economic and social outcomes RTB has accelerated the scaling of innovations to reach many end users cost effectively Though most of the book s examples and insights are from Africa they can be applied worldwide The book will be useful for decision makers designing policies to scale up agricultural solutions for researchers and extension specialists seeking practical ideas and for scholars of innovation

Annual Report 2005 International Potato Center, **Seed Potato Production in China** , Potatoes in the 1990s ,1995-01-01 Issues in Applied Agriculture: 2013 Edition ,2013-06-20 Issues in Applied Agriculture 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Grape and Wine Research The editors have built Issues in Applied Agriculture 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Grape and Wine Research in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Applied Agriculture 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> **Biotechnologies of Crop Improvement, Volume 1** Satbir Singh Gosal,Shabir Hussain Wani,2018-06-22 During the past 15 years cellular and molecular approaches have emerged as valuable adjuncts to supplement and complement conventional breeding methods for a wide variety of crop plants

Biotechnology increasingly plays a role in the creation conservation characterization and utilization of genetic variability for germplasm enhancement For instance anther microspore culture somaclonal variation embryo culture and somatic hybridization are being exploited for obtaining incremental improvement in the existing cultivars In addition genes that confer insect and disease resistance abiotic stress tolerance herbicide tolerance and quality traits have been isolated and re introduced into otherwise sensitive or susceptible species by a variety of transgenic techniques Together these transformative methodologies grant access to a greater repertoire of genetic diversity as the gene s may come from viruses bacteria fungi insects animals human beings unrelated plants or even be artificially derived Remarkable achievements have been made in the production characterization field evaluation and commercialization of transgenic crop varieties worldwide Likewise significant advances have been made towards increasing crop yields improving nutritional quality enabling crops to be raised under adverse conditions and developing resistance to pests and diseases for sustaining global food and nutritional security The overarching purpose of this 3 volume work is to summarize the history of crop improvement from a technological perspective but to do so with a forward outlook on further advancement and adaptability to a changing world Our carefully chosen case studies of important plant crops intend to serve a diverse spectrum of audience looking for the right tools to tackle complicated local and global issues Providing Food Security , Potatoes in West Java , National Potato Germplasm Evaluation and Enhancement Report ,1993 Hi-Tech Farming for Enhancing Horticulture Productivity P. Parvatha Reddy,2024-02-06 This book highlights the underlying principles and outlines some of the key hi tech practices and technology interventions required to achieve enhanced productivity It discusses horticulture technology interventions like varietal improvement including genetically modified crops good agricultural practices like optimum planting density micro irrigation fertigation integrated nutrient management plant bioregulators precision horticulture protected cultivation nanotechnology and integrated farming systems integrated management of insects mites disease pathogens nematodes and weeds and post harvest management practices like handling storage and processing to reduce crop losses The importance of attaining food and nutritional security through hi tech horticulture and profitable marketing of horticultural produce is also discussed This book will be of immense value to the scientific community involved in teaching research and extension activities related to hi tech horticulture strategies for enhancing productivity in enhancing farmers income food nutrition and livelihood security The material can be used for teaching postgraduate courses The book can also serve as a very useful reference to policymakers and practicing farmers **Optimizing Potato Productivity in Developing Countries ,**

Impact of hybrid potato Paul C. Struik,Peter R. Gildemacher,Dirk Stemerding,Pim Lindhout,2023-08-14 This book describes the potential impact of the innovative hybrid breeding technology in potato Conventional potato production is based on cumbersome breeding and multiplying of seed tubers Seed tubers degenerate during the many generations of slow multiplication Their bulkiness makes them difficult to store and transport These issues are solved by hybrid true potato seed

Hybrid potato can help respond to the challenges of poverty food security and climate change especially in remote and harsh environments Hybrid breeding will increase the turnover of cultivars in such environments once new seed systems based on hybrid true potato seed are established and regulated With faster breeding and multiplication systems clean seed can be produced of hybrid cultivars that respond to rapidly changing agronomic and socio economic conditions Public private partnerships are crucial to facilitate the development and dissemination of hybrid cultivars that are adapted to the specific conditions and needs of the diverse types of potato growers in different environments and markets These partnerships depend on knowledge and technologies emerging from international agro industrial innovation systems But next to this dominant innovation route alternative systems are feasible with more emphasis on food sovereignty in farming systems that are less corporate and technology driven and more diversity oriented

African Handbook of Climate Change Adaptation Nicholas Ogue, Desalegn Ayal, Lydia Adeleke, Izael da Silva, 2021-05-20 This open access book discusses current thinking and presents the main issues and challenges associated with climate change in Africa It introduces evidences from studies and projects which show how climate change adaptation is being and may continue to be successfully implemented in African countries Thanks to its scope and wide range of themes surrounding climate change the ambition is that this book will be a lead publication on the topic which may be regularly updated and hence capture further works Climate change is a major global challenge However some geographical regions are more severely affected than others One of these regions is the African continent Due to a combination of unfavourable socio economic and meteorological conditions African countries are particularly vulnerable to climate change and its impacts The recently released IPCC special report Global Warming of 1.5°C outlines the fact that keeping global warming by the level of 1.5°C is possible but also suggested that an increase by 2.0°C could lead to crises with crops agriculture fed by rain could drop by 50% in some African countries by 2020 and livestock production could damage water supplies and pose an additional threat to coastal areas The 5th Assessment Report produced by IPCC predicts that wheat may disappear from Africa by 2080 and that maize a staple will fall significantly in southern Africa Also arid and semi arid lands are likely to increase by up to 8% with severe ramifications for livelihoods poverty eradication and meeting the SDGs Pursuing appropriate adaptation strategies is thus vital in order to address the current and future challenges posed by a changing climate It is against this background that the African Handbook of Climate Change Adaptation is being published It contains papers prepared by scholars representatives from social movements practitioners and members of governmental agencies undertaking research and or executing climate change projects in Africa and working with communities across the African continent Encompassing over 100 contributions from across Africa it is the most comprehensive publication on climate change adaptation in Africa ever produced

Seed Potato Systems in the Philippines Charles C. Crissman, 1989 Potatoes in the Philippines Breeding and variety selection for seed production Initial seed multiplication Building seed supplies Other organized potato production schemes Crop protection and storage Issues

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