
Enhancing Potato Seed Production Using Rapid

Potato Seed Production

Potato and Sweetpotato in Africa

Potato Seed Production for Tropical Africa

734

Project code: OSRO/AFG/502/JCA

Microbial Strategies for Vegetable Production

Status and Perspectives

International Potato Center

Final evaluation of "Enhancing Agriculture

Production through Irrigation System

Improvement and Strengthening Institutional
Capacity"

Transforming the Value Chains for Food and
Nutrition Security

Plant Biotechnology and Plant Genetic Resources
for Sustainability and Productivity

Focus on partnerships: Enriching the science,
expanding the reach, enhancing the impact

Potato production and innovative technologies

On-Farm Seed Improvement by the Potato Seed
Plot Technique

Vegetable Improvement and Seed Production
Research Centre

Report of the 28th Planning Conference,

December 10-14 1984, Lima, Peru

Seed potato technology

Evolving from farming systems research into a more holistic rural development approach:

Experiences in the Andean region

Transforming the Value Chains for Food and Nutrition Security

Virus and Virus-like Diseases of Major Crops in Developing Countries

Partners in Research for the 21st Century :

Program Report 1999-2000

Its Agricultural, Nutritional and Social Contribution to Humankind

Biotechnologies of Crop Improvement, Volume 1
Production and Utilization of True Potato Seed in Asia

Managing the Potato Production System

Potato production and innovative technologies

Strategic analysis and intervention plan for potatoes and potato products in the Agro-Commodities Procurement Zone of the pilot

Integrated Agro-Industrial Park in Central-Eastern Oromia, Ethiopia

Scientist and Farmer

Handbook of Potato Production, Improvement, and Postharvest Management

Molecular Methods for Potato Improvement

The Potato Crop

Production, Marketing, And Programs For Developing Countries

Proceedings of the Inter-Regional Workshop Held at the Central Potato Research Station,

Modipuram, India, January 21-30, 1995
Potato and Sweetpotato in Africa
Report of the "Workshop on Sweet Potato
Improvement in Asia," Held at ICAR, Trivandrum,
India ... October 24-28, 1988
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and Crop Improvement
A Feasibility Study Report on Establishment of an
Informal Seed Sector in Six Districts Under the
Decentralised Programme of Uganda Submitted
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Potato Seed Production

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This comprehensive
book is the result of
the Potato Russia
international
conference that took
place in August 2007 in
Moscow. It begins with
a series of papers that
give an excellent

overview of consumer
behaviour and
marketing with
examples from various
countries in the world.
The quality of
processing and ware
potato and methods of
quantifying it, is
addressed by papers
that highlight its need
and reveal new
approaches and
techniques. The
newest developments
in technology,

mechanization and storage are highlighted in papers from eastern and western Europe. The importance and benefits of having adequately functioning seed potato systems with up to date rapid multiplication systems is shown in chapters from various countries with a special contribution on the commercial quality standards of the United Nations Economic Commission for Europe (UNECE). Developments of recent agronomic and crop management practices are illustrated with examples of countries in technological and market transition. Innovations in crop protection put special emphasis on diagnostics and detection of resistance

levels, among others, against wart. The extensive Russian breeding programmes - with value for the global potato community are highlighted in the breeding section with additional papers from Japan and the Netherlands. The book ends with a series of papers on molecular aspects of innovative breeding. This book is of wide and ongoing interest to stakeholders around the world who are interested in all aspects of the rapidly evolving potato supply chains such as potato producers, breeding, chemical and machinery companies and potato specialists of all disciplines. *Potato and Sweetpotato in Africa* Springer

The basics through practical application—all in one book! Potatoes are a crucial food crop around the world, grown in nearly 150 countries. The Handbook of Potato Production, Improvement, and Postharvest Management compiles everything you need to know about potato crop production in one well-organized reference. Leading international *Potato Seed Production for Tropical Africa* Potato Seed Production Springer Nature 734 International Potato Center This book provides basic knowledge on how to produce, multiply and use propagation material in

seed potato production and supply systems world wide. 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.

Project code:

OSRO/AFG/502/JCA

Elsevier

This book provides a comprehensive information on basic and applied concepts

of microbial strategies adopted for the improvement of vegetables grown in various production systems. The beneficial role of soil microbes including plant growth promoting rhizobacteria (PGPR), nitrogen fixers, and phosphate-solubilizing bacteria in the improvement of vegetables grown both in normal and contaminated soils is discussed. The role of PGPR in tomato production is dealt separately. The impact of heavy metals on different vegetables and abatement of metal toxicity following metal tolerant PGPR and their consequential impact on vegetables grown in metal polluted soil is discussed. Moreover, recent advances in the

management of vegetable diseases employing PGPR are addressed. This volume is therefore of special interest to both academics, professionals and practitioners working in the field of vegetable farming/horticulture, microbiology and plant protection sciences.

Microbial Strategies for Vegetable Production

International Potato Center

This important book on the culture of the potato presents scientific information for potato growers in an easily accessible format and clear language. Managing the Potato Production System contains all the information needed to harvest a bountiful crop. The book is written specifically for

field production-oriented technicians and growers and makes the knowledge of production systems easy for readers to apply by providing essential background information, suggestions for incorporating the information into a total production system, and sample forms for collecting data to assist proper and timely decision making. Special sections on harvesting and storage emphasize techniques for protecting the quality of the crop while other chapters provide helpful information on reporting trends in marketing to aid future planning efforts. This easy-to-use guide directs producers to the most critical areas of production, storage,

and marketing, helping them to control or influence factors that will result in a healthy, plentiful crop. This is a valuable reference to be consulted for solutions to specific problems or ways to take advantage of opportunities as they occur. Managing the Potato Production System is more than abstract theory; the systems described here have been proven in one or more actual cases of potato production. The strategies devised in this volume help potato producers grow an economically viable crop in a manner that can be sustained over generations with positive impact on the environment. The book concentrates on the interpretation of scientific findings

about potatoes and production beginning with a discussion of the origin of the crop, its distribution, and history of its production in the United States. Other chapters feature explanations of the factors which affect potato production including the genetics of *Solanum tuberosum* in regard to variety (cultivar) improvement and the effect of potato breeding on production. Specific t
Status and Perspectives Springer
 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.

International Potato Center CRC Press

Potato ranks fourth position in the world after wheat, rice and maize as non cereal food crop. Potato is probably the most popular food item in the Indian diet and India is one of the

largest producers of potato. It is used in many ways like vegetable, potato wafers/chips, powder, finger chips etc. Potato tubers constitute a highly nutritious food. It provides carbohydrates, vitamin C, minerals, high quality protein and dietary fiber. Potato is a rich source of starch and it is consumed mainly for its calorific value, also contains phosphorus, calcium, iron and some vitamins. Boiling potatoes increases their protein content and almost doubles their calcium content. It is vastly consumed as a vegetable and is also used in various forms such as starch, flour, alcohol, and dextrin and livestock fodder. It is estimated that about 25 % of the

potatoes, which are spoiled due to several reasons, may be saved by processing and preservation of various types of processed products. The potatoes can be processed for preservation and value addition in the form of wafers/ chips, powder, flakes, granules, canned slices. Potato granules are used for the preparation of various recipes, to add to vegetable and non vegetable recipes and to enhance the quantity as well as to enrich the food value. There is a huge potential for processed potato products such as potato flakes, potato powder, frozen potatoes, frozen French fries, potato chips/wafers are one of the most popular snack items consumed throughout world.

International trade in potatoes and potato products still remains thin relative to production, as only around 6 percent of output is traded. High transport costs, including the cost of refrigeration, are major obstacles to a wider international marketplace. The industry is still growing at a rapid pace where French fries are showing the highest growth followed by potato chips and potato powder/flakes. It is by far the largest product category within snacks, with 85% of the total market revenue. This book basically deals with origin, evolution, history and spread of potato, potato products, quality requirements for processing,

morphological, size and shape, defects, biochemical, dry matter, reducing sugars, phenols, inheritance, morphological attributes, tuber shape, growth cracks, hollow heart, internal rust spots, greening, biochemical attributes, glycoalkaloids, dry matter, reducing sugars, enzymic browning, development of varieties for processing, areas suitable for growing processing potatoes, processing quality of Indian potato varieties, processed potato products, dehydrated products at village level, potato chips, french fries and flakes commercial production, grading manual for frozen French fried potatoes for frozen

French fried potatoes, areas of production, varieties, receiving, determining the quality and condition of raw potatoes for frying purposes, determining the quality and condition of raw potatoes for frying purposes, etc. The present book covers complete details of potato cultivation and processing in proper manner. This book is an invaluable resource for agriculture universities, students, technocrats and entrepreneurs. Springer Nature This comprehensive book is the result of the Potato Russia international conference that took place in August 2007 in Moscow. It begins with a series of papers that give an excellent overview of consumer

behaviour and marketing with examples from various countries in the world. The quality of processing and ware potato and methods of quantifying it, is addressed by papers that highlight its need and reveal new approaches and techniques. The newest developments in technology, mechanization and storage are highlighted in papers from eastern and western Europe. The importance and benefits of having adequately functioning seed potato systems with up to date rapid multiplication systems is shown in chapters from various countries with a special contribution on the commercial quality standards of the United Nations Economic

Commission for Europe (UNECE).

Developments of recent agronomic and crop management practices are illustrated with examples of countries in technological and market transition. Innovations in crop protection put special emphasis on diagnostics and detection of resistance levels, among others, against wart. The extensive Russian breeding programmes - with value for the global potato community are highlighted in the breeding section with additional papers from Japan and the Netherlands. The book ends with a series of papers on molecular aspects of innovative breeding. This book is of wide and ongoing

interest to stakeholders around the world who are interested in all aspects of the rapidly evolving potato supply chains such as potato producers, breeding, chemical and machinery companies and potato specialists of all disciplines.

Final evaluation of "Enhancing Agriculture Production through Irrigation System Improvement and Strengthening Institutional Capacity"

International Potato Center

With the current Second Growth and Transformation Plan (2015-2020), the Government of Ethiopia expects the agro-industrial sector to play key role in economic growth of the Country. Accordingly, the creation of

Integrated Agro-Industrial Parks has been identified as one of the key mechanisms for accelerating the development of the sector and the structural transformation of agriculture. Agro-industrial parks will play a significant role in transitioning Ethiopia from an agricultural-led into an industrial-led economy. In view of that, the development of Integrated Agro-Industrial Parks has been prioritized in Ethiopia's national development strategy and four Agro Industrial Growth Corridors have been selected for piloting the establishment of four Integrated Agro-Industrial Parks. The initiative aims at driving the structural

transformation of the Ethiopian economy while reducing rural poverty and creating a better environment for increased investments in agro-processing and allied sectors. Since 1981, FAO has been a strong partner of the Government of Ethiopia towards the achievement of national food security and economic growth goals. FAO is working closely with the Ministry of Agriculture and Natural Resources to empower value chain actors and to promote inclusive, efficient and sustainable agricultural value chains. The present document is the fourth one of a series of detailed analyses of prioritized commodities, which will lead to inclusive, sustainable and

stronger agricultural value chains in the Agro-Commodities Procurement Zone of the pilot Integrated Agro-Industrial Park in Central-Eastern Oromia.

Transforming the Value Chains for Food and Nutrition Security
International Potato Center

It appears that a comprehensive and up-to-date book on the impact of virus diseases on the major crops in developing countries is now much needed, especially as there have been rapid advances in the biological and molecular characterization and detection of the pathogens and possible approaches for their control. On the other hand, the economic losses

caused by many of these diseases are tremendous and much of the accumulated knowledge to diminish the crop losses has not filtered through, or cannot be applied. This book is focused on the important crops. Each chapter on a specific crop will include inter alia, geographical distribution, the viruses - symptoms, damage, detection - a brief description of the viruses concerned, and present and future ways for their control. Experts from India, Nigeria, UK, USA, France, Germany, Peru, Japan, Australia, Netherlands, Venezuela, Kazakhstan and Israel (many of them from the International Research Institutions) have contributed chapters to this book.

Plant Biotechnology and Plant Genetic Resources for Sustainability and Productivity Food & Agriculture Org.

Although the potato is usually thought of as a temperate-zone crop, potato growing in the tropics and subtropics is spreading rapidly. In terms of the dollar value of the crop, this edible root now ranks fourth in the developing world after rice, wheat, and maize. Nevertheless, policymakers often underrate the importance of the potato as a source of employment, income, and food or they underestimate the potential benefits from expanding potato production and use. The payoff from applied research on potato cultivation in

the tropics and subtropics is high due to the large body of scientific information from developed countries. This book summarizes the principles of potato production, distribution, and use. The essential facts about the potato as a crop, a commodity, and a food are discussed as well as the issues that scientists and policymakers should consider in setting priorities for implementing and assessing the impact of potato research and extension programs. A major premise of the book is that programs aiming to increase food supplies and reduce poverty through crop improvement need to consider not only production technology

but also marketing strategies and consumption patterns. Adequate planning for agricultural research and development requires an understanding of how crops are grown, marketed, and used and of what potential benefits the new technologies can yield. Hence, effective crop improvement programs need both technical and socioeconomic expertise. The administrators and others responsible for implementing these programs must concern themselves with the policies that impinge on the adoption and consequences of new production methods so that their countries may reap the full benefits of an increased and stable

food supply.

Focus on partnerships: Enriching the science, expanding the reach, enhancing the impact International

Potato Center
Increased world population, decreased water supply, and climate change all put stresses on the global food supply. An exploration of the challenges and possible solutions to improve yields of the main crops, such as cereals, roots, tubers, and grasses, Omics Technologies and Crop Improvement reviews data on food sciences and omics. The book covers

Potato production and innovative technologies

International Potato Center

Plant Biotechnology And Plant Genetic Resources, which boasts a truly international list of contributors with a variety of expertise, thoroughly explores all the major contemporary concerns. It discusses the strategies for the best use of modern biotechnology and precious plant genetic resources to alleviate components associated with global constraints in hunger, environment and health. This book is a valuable resource for scientists and policy makers as the world faces unprecedented challenges in the sustainability and productivity of the global food and fibre system.

On-Farm Seed Improvement by the Potato Seed Plot

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Vegetable Improvement and Seed Production Research Centre International Potato Center
Country and research reports on sweet potato; CIP research and transfer program; Present status and future prospects of sweet potatoes in Bangladesh; Sweet potato production and research in china; Sweet potato production, utilization and constrains in India; Sweet potato production, utilization, and research in Indonesia; Country report of LAO P.D.R. participants; Sweet potato cultivation in Malaysia: a country report; Country paper - papua New Guinea; Sweet potato research and development in the Philippines; The outline for sweet potato in Korea; Sweet potato in Thailand; The Sweet potato in Vietnam; Development and testing of an integrated pest management technique to control sweet potato weevil; Digestibility of sweet potato starch; Sweet potato breeding in Japan: its past, present and future; Recent studies on dry matter production physiology; Sweet potato adaptation studies at North Carolina State University; Nutritional aspects of sweet potato roots and leaves; Sweet potato research at the International Potato Center; Research activities in CIP on sweet potato virus diseases; In vitro sweet

potato germplasm management;
 Strategies to develop sweet potatoes with weevil resistance in developing countries;
 Important nematode parasites of sweet potatoes and their management;
 Constraints to sweet potato production and use;
 Sweet potato production and consumption surveys: variability and varieties;
 CIP's program for human resources development through training;
 Workshop on sweet potato improvement in Asia: highlights of session presenting CIP sweet potato research programme.
Report of the 28th Planning Conference, December 10-14 1984, Lima, Peru
 Springer Science & Business Media

Rice and potatoes are Afghanistan's two most staple crops after wheat. Rice production is dependent on water from irrigation canals, with most of Afghanistan's irrigation infrastructure in disrepair, farmers are vulnerable. Between 2016 and 2018, FAO in Afghanistan (FAOAF) and the Ministry of Agriculture, Irrigation and Livestock (MAIL) rehabilitated irrigation infrastructure and laid the foundations of a virus-free potato seed industry in three provinces (Kunduz, Baghlan and Takhar). The project enhanced food production and contributed to the Government's agricultural development and food security objectives. The evaluation recommends that

future irrigation rehabilitation includes training to demonstrate improved cropping practices to help farmers build their resilience to external shocks. Training of potato farmers and enterprises involved in the industry will help determine the sustainability of the industry beyond the end of the project.

Seed potato technology NIIR
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Summarizing landmark research, Volume 3 of this essential series furnishes information on the availability of germplasm resources that breeders can exploit for producing high-yielding vegetable crop varieties. Written by leading international experts,

this volume offers the most comprehensive and up-to-date information on employing genetic resources to increase the yield of those vegetable crops that provide a main source of minerals, vitamins, and antioxidants. In eleven succinct chapters, Genetic Resources, Chromosome Engineering, and Crop Improvement: Vegetable Crops, Volume 3 focuses on potato, tomato, brassicas, okra, capsicum, alliums, cucurbits, lettuce, eggplant, and carrot. An introductory chapter outlines the cytogenetic architecture of vegetable crops, describes the principles and strategies of

cytogenetics and breeding, and summarizes landmarks in current research. This sets the stage for the ensuing crop-specific chapters. Each chapter generally provides a comprehensive account of the crop, its origin and taxonomy, wild relatives, exploitation of genetic resources diversity in the primary, secondary, and tertiary gene pools through breeding and cytogenetic manipulation, and genetic enrichment using the tools of molecular genetics and biotechnology. Certain to become the standard reference for improving the yields of these critical vegetable crops, this book is the definitive source of information for plant

breeders, gene-bankers, cytogeneticists, taxonomists, molecular biologists, biotechnologists, and graduate students, researchers, agronomists, horticulturists, farmers and consumers in these fields.

Evolving from farming systems research into a more holistic rural development approach: Experiences in the Andean region
Food & Agriculture Org.
This book comprises the best potato seed production practices and includes details on potato cultivation, classification, and the main structural elements of the successive stages of potato seed production. It presents potato varieties from Russian originators,

describes modern technologies involved in the process of potato seed production, and presents special aspects of phytosanitary and process regulations for the cultivation of high-quality potato seed. Additionally, the authors illustrate the statutory regulation of salable quality of potato seed: purity of variety, diseases, pests, and defects. The authors identify Russian quality control methods and certification of potato seed, and consider the packaging and labeling of potato seed that is held for sale. Finally, the authors also clarify the features of foreign potato seed certification systems.

Transforming the Value Chains for

Food and Nutrition Security CRC Press

This book is open access under a CC BY 4.0 license. This book provides a fresh, updated and science-based perspective on the current status and prospects of the diverse array of topics related to the potato, and was written by distinguished scientists with hands-on global experience in research aspects related to potato. The potato is the third most important global food crop in terms of consumption. Being the only vegetatively propagated species among the world's main five staple crops creates both issues and opportunities for the potato: on the one hand, this constrains the speed of its geographic expansion

and its options for international commercialization and distribution when compared with commodity crops such as maize, wheat or rice. On the other, it provides an effective insulation against speculation and unforeseen spikes in commodity prices, since the potato does not represent a good traded on global markets. These two factors highlight the underappreciated and underrated role of the potato as a dependable nutrition security crop,

one that can mitigate turmoil in world food supply and demand and political instability in some developing countries. Increasingly, the global role of the potato has expanded from a profitable crop in developing countries to a crop providing income and nutrition security in developing ones. This book will appeal to academics and students of crop sciences, but also policy makers and other stakeholders involved in the potato and its contribution to humankind's food security.

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