



Handbook of Potato Production, Improvement, and Postharvest Management (Crop Science)

Jai Gopal, S.M. Khurana

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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 authorities clearly discuss the biology, genetics, breeding, diseases, and effective approaches for improvement of crop and handling after harvest. This one-of-a-kind text explores, from interdisciplinary perspectives, every aspect of potato crop management from seed germination to end use while presenting the most current research available.

The Handbook of Potato Production, Improvement, and Postharvest Management reviews both wild and cultivated potatoes, examining the crop's origins, history, and habitat. Cultivation techniques are discussed in detail, with emphasis on breeding, biotechnological, and agronomic methods that can improve yield and help ensure the health of the vegetable. Qualitative and quantitative genetic traits are comprehensively explained, and integrated management of pests, diseases, weed, and water are extensively considered. Various abiotic stresses are examined, including heat, drought, salinity, frost, and others. Potato crop's most devastating disease, late blight, is explored in detail. Different types of after-harvest storage are analyzed with an eye toward maintaining optimum freshness year-round, and a useful description of biochemical changes effected during storage is included. Processing and detailed information on food value are also reviewed. In addition, a final chapter explores true potato seed (TPS) options. The book includes detailed references and helpful tables, graphs, and figures to enhance understanding of material.

Topics in the Handbook of Potato Production, Improvement, and Postharvest Management include:

- history
- structure
- biosystematics
- genetics
- breeding
- biotechnology for improvement
- approaches to improve quality
- ecophysiology and agronomic management
- comprehensive information on diseases and viruses
- insects
- abiotic stresses and their management
- storage issues
- processing
- *and much more!*

The Handbook of Potato Production, Improvement, and Postharvest Management makes an invaluable desktop reference for educators, postgraduate students, researchers, and any potato industry professional.

The text is also perfect for university reference libraries.

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