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Organic Crop Breeding | Wiley Online Books

Organic Crop & Seed Breeding for Adapting to Climate Change. October 20, 2020 - Most modern crop cultivars have been bred and selected to perform well in conventional farming systems over wide geographic ranges. As a result, organic farmers have relatively few options for purchasing regionally adapted cultivars suited to organic production.

Organic Crop & Seed Breeding for Adapting to Climate ...

Organic Crop Breeding provides readers with a thorough review of the latest efforts by crop breeders and geneticists to develop improved varieties for organic production. The book opens with chapters looking at breeding efforts that focus on specific valuable traits such as quality, pest and disease resistance as well as the impacts improved breeding efforts can have on organic production. The ...

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ECOBREED: Increasing the efficiency and competitiveness of organic crop breeding. More. ECOBREED will improve the availability of seed

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and varieties. suitable for organic and low- input production. Activities will focus on four crop species, selected for their potential contribution to increase competitiveness of the organic sector:

Ecobreed - Improving crops

The daily language usage makes the organic crop breeding leading in experience. You can locate out the quirk of you to create proper upholding of reading style. Well, it is not an simple challenging if you really reach not subsequently reading. It will be worse.

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Written by a global team of the leading experts in the field, Organic Crop Breeding is a field-defining reference that will be of both academic and practical use. From the Back Cover Organic crop

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production utilizes different approaches and growing environments compared to conventionally raised crops to achieve production in growing systems that mimic natural ecosystems.

Organic Crop Breeding: Lammerts van Bueren, Edith T ...

Plant breeding is the science of changing the traits of plants in order to produce desired characteristics. It has been used to improve the quality of nutrition in products for humans and animals. The goals of plant breeding are to produce crop varieties that boast unique and superior traits for a variety of agricultural applications.

Plant breeding - Wikipedia

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Organic crop breeding: integrating organic agricultural approaches and traditional and modern plant breeding methods / Edith T. Lammerts van Bueren and James R. Myers -- Nutrient management in organic farming and consequences for direct and indirect selection strategies / Monika Messmer ... [et al.] -- Pest and disease management in organic farming: implications and inspirations for plant breeding / Thomas F. Doring ... [et al.] -- Approaches to breed for improved weed suppression in organically grown cereals / Steve P. Hoad ... [et al.] -- Breeding for genetically diverse populations: variety mixtures and evolutionary populations / Julie C. Dawson and Isabelle Goldringer -- Centralized or decentralized breeding: the potentials of participatory approaches for low-input and organic agriculture / Dominique Desclaux

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... [et al.] -- Values and principles in organic farming and consequences for breeding approaches and techniques / Klaus P. Wilbois, Maaïke Raaijmakers, and Edith T. Lammerts van Bueren -- Plant breeding, variety release and seed commercialisation: laws and policies applied to the organic sector / Véronique Chable ... [et al.] -- Wheat: breeding for organic farming systems / Matt Arterburn, Kevin Murphy, and Steve S. Jones -- Maize: breeding and field testing for organic farmers / Walter A. Goldstein ... [et al.] -- Rice: crop breeding using farmer led participatory plant breeding / Charito P. Mendina -- Soybean: breeding for organic farming systems / Johann Vollmann and Michelle Menken -- Faba bean: breeding for organic farming systems / Wolfgang Link and Lamiae Ghaouti -- Potato: perspectives to breed for an organic crop ideotype / Marjolein Tiemens-Hulscher, Edith T. Lammerts van Bueren, and Ronald C.B. Hutten -- Tomato: breeding for improved disease resistance in fresh market and home garden varieties / Bernd Horneburg and James R. Myers -- Brassicas: breeding cole crops for organic agriculture / James R. Myers, Laurie McKenzie, and Roeland E. Voorrips -- Onion: breeding onions for low-input and organic agriculture / Olga E. Scholten and Thomas W. Kuyper.

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This book presents the history of, and current approaches to, farmer-breeder collaboration in plant breeding, situating this work in the context of sustainable food systems, as well as national and international policy and law regimes. Plant breeding is essential to food production, climate-change adaptation and sustainable development. This book brings together experienced practitioners and researchers involved in collaborative breeding programmes across a diversity of crops and agro-ecologies around the world. Case studies include collaborative sorghum and pearl millet breeding for water-stressed environments in West Africa, participatory rice breeding for intensive rice farming in the Mekong Delta, and evolutionary participatory quinoa breeding for organic agriculture in North America. While outlining the challenges, the volume also highlights the positive impacts, such as yield increases, farmers' empowerment in the innovation and development processes, contributions to maintenance of crop genetic diversity and adaptation to climate change. This collection offers a range of perspectives on enabling conditions for farmer-breeder collaboration in plant breeding in relation to biodiversity agreements such as the Plant Treaty, trade agreements and related intellectual property rights (IPR) regimes, and national seed policies and laws. Relevant to a wide audience, including

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practitioners with experience in plant breeding and management of crop genetic resources and those with a broader interest in agriculture and development, as well as students of international cooperation and development, this volume is a timely addition to the literature.

"[Book title] is the definitive guide to plant breeding and seed saving for the serious home gardener and the small-scale farmer or commercial grower. Discover: how to breed for a wide range of different traits (flavor, size, shape, or color; cold or heat tolerance; pest and disease resistance; and regional adaptation); how to save seed and maintain varieties; how to conduct your own variety trials and other farm- or garden-based research; how to breed for performance under organic or sustainable growing methods."--Back cover.

The Organic Seed Grower is a comprehensive manual for the serious vegetable grower who is interested in growing high-quality seeds using organic farming practices. It is written for both serious home seed savers and diversified small-scale farmers who want to learn the necessary steps involved in successfully producing a commercial seed crop organically. Detailed profiles for each of the major vegetables provide users with practical, in-depth knowledge about growing,

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harvesting, and processing seed for a wide range of common and specialty vegetable crops, from Asian greens to zucchini. In addition, readers will find extensive and critical information on topics including: The reproductive biology of crop plants Annual vs. biennial seed crops Isolation distances needed to ensure varietal purity Maintaining adequate population size for genetic integrity Seed crop climates Seed-borne diseases Seed-cleaning basics Seed storage for farmers and more . . . This book can serve as a bridge to lead skilled gardeners, who are already saving their own seed, into the idea of growing seed commercially. And for diversified vegetable farmers who are growing a seed crop for sale for the first time, it will provide details on many of the tricks of the trade that are used by professional seed growers. This manual will help the budding seed farmer to become more knowledgeable, efficient, and effective in producing a commercially viable seed crop. With the strong demand for certified organic produce, many regional seed companies are increasingly seeking out dedicated seed growers to ensure a reliable source of organically grown seeds for their farmer and gardener customers. This trend represents a great business opportunity for small-scale commercial growers who wish to raise and sell vegetable seeds as a profitable part of their diversified small-farm operation. Written by well-known plant breeder and organic seed expert John

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Navazio, *The Organic Seed Grower* is the most up-to-date and useful guide to best practices in this exciting and important field.

By the year 2050, Earth's population will double. If we continue with current farming practices, vast amounts of wilderness will be lost, millions of birds and billions of insects will die, and the public will lose billions of dollars as a consequence of environmental degradation. Clearly, there must be a better way to meet the need for increased food production. Written as part memoir, part instruction, and part contemplation, *Tomorrow's Table* argues that a judicious blend of two important strands of agriculture--genetic engineering and organic farming--is key to helping feed the world's growing population in an ecologically balanced manner. Pamela Ronald, a geneticist, and her husband, Raoul Adamchak, an organic farmer, take the reader inside their lives for roughly a year, allowing us to look over their shoulders so that we can see what geneticists and organic farmers actually do. The reader sees the problems that farmers face, trying to provide larger yields without resorting to expensive or

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environmentally hazardous chemicals, a problem that will loom larger and larger as the century progresses. They learn how organic farmers and geneticists address these problems. This book is for consumers, farmers, and policy decision makers who want to make food choices and policy that will support ecologically responsible farming practices. It is also for anyone who wants accurate information about organic farming, genetic engineering, and their potential impacts on human health and the environment.

Organic farmers require improved varieties that have been adapted to their unique soils, nutrient inputs, management practices, and pest pressures. In addition to these biological specifications, organic breeding projects must also consider the cultural and economic influences that contribute to the organic farming movement. This dissertation describes the development, evaluation, and public release of an organic open-pollinated sweet corn variety. The variety was bred using a recurrent selection and participatory plant breeding (PPB) methodology, and released as a collaborative effort among breeders at the University of Wisconsin - Madison, the non-profit organization Organic Seed Alliance, and an organic farmer in Minnesota. Three distinct analyses justify the methods used for this particular variety, and suggest models for future organic breeding projects.

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First, a synthesis of the histories of PPB and organic farming in the United States reveals the biological, cultural, and economic relevance of collaboration between organic farmers and public plant breeders. Second, field experiments evaluating the gains made from selection in this sweet corn variety, as well as a second open-pollinated sweet corn population, suggest the challenges of incorporating the multiple traits critical for organic growers. While significant linear trends were found among cycles of selection for quantitative and qualitative traits, further breeding is necessary to fully satisfy the requirements for a useful cultivar for organic growers. Third, a case study of the release and commercialization of this sweet corn variety highlight the need for policy changes to support new breeding collaborations and to ensure that varieties developed with public funds are widely accessible for use by both farmers and plant breeders. Ultimately, this sweet corn variety provides a successful example for the nascent organic seed sector, and contributes to the development of a new paradigm for plant breeding.