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The book deals with the impacts of rising CO₂ levels and climate change on plant/crop growth, development, and production. It also offers guidance on plants and crops that can be successfully cultivated under more stressful conditions, presented in six chapters that examine alleviation of future food security issues.

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Continuous discoveries in plant and crop physiology have resulted in an abundance of new information since the publication of the second edition of the Handbook of Plant and Crop Physiology, necessitating a new edition to cover the latest advances in the field. Like its predecessors, the Third Edition offers a unique, complete collection of topics in plant and crop physiology, serving as an up-to-date resource in the field.

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Handbook of Plant and Crop Stress. Boca Raton: CRC Press, <https://doi.org/10.1201/b10329>. COPY. The dynamic and expanding knowledge of environmental stresses and their effects on plants and crops have resulted in the compilation of a large volume of information in the last ten years since the publication of the second edition of the Handbook of Plant and Crop Stress.

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Abstract: "The dynamic and expanding knowledge of environmental stresses and their effects on plants and crops have resulted in the compilation of a large volume of information in the last ten years since the publication of the second edition of the Handbook of Plant and Crop Stress.

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~~Handbook of plant and crop stress | Mohammad Pessaraki ...~~

Offering over 300 useful tables, equations, drawings, photographs, and micrographs, the book covers cellular and molecular aspects of plant and crop physiology, plant and crop physiological responses to heavy metal concentration and agrichemicals, computer modeling in plant physiology, and more.

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The Handbook of Plant and Crop Physiology is needed to fill the gap in the available literature. In addition, it has long been recognized that physiological processes control plant growth and crop yields.

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Environmental Stress Conditions; 39.

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In this book, plant cell cultures are described for a wide range of crops. These
crops include maize, oats, wheat, beans, red clover and other forage legumes,
asparagus, celery, cassava, sweet potato, banana, papaya, apple, grapes, conifers,
data palm, rubber, sugar-cane and tobacco.

~~Handbook of plant cell culture. 2. Crop species.~~

Handbook of Plant and Crop Physiology book. Edited By Mohammad Pessaraki.
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Continuous discoveries in plant and crop physiology have resulted in an abundance of new information since the publication of the third edition of the Handbook of Plant and Crop Physiology. Following its predecessors, the fourth edition of this well-regarded handbook offers a unique, comprehensive, and complete collection of topics in the field of plant and crop physiology. Divided into eleven sections, for easy access of information, this edition contains more than 90 percent new material, substantial revisions, and two new sections. The handbook covers the physiology of plant and crop growth and development, cellular and molecular aspects, plant genetics and production processes. The book presents findings on plant and crop growth in response to climatic changes, and considers the potential for plants and crops adaptation, exploring the biotechnological aspects of plant and crop improvement. This content is used to plan, implement, and evaluate strategies for increasing plant growth and crop yield. Readers benefit from numerous tables, figures, case studies and illustrations, as well as thousands of index words, all of which increase the accessibility of the information contained in this important handbook. New to the Edition: Contains 37 new chapters and 13 extensively revised and expanded chapters from the third edition of this book. Includes new or modified sections on soil-plant-water-nutrients-microorganisms physiological relations; and on plant growth regulators, both promoters and

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inhibitors. Additional new and modified chapters cover the physiological responses of lower plants and vascular plants and crops to metal-based nanoparticles and agrichemicals; and the growth responses of plants and crops to climate change and environmental stresses. With contributions from 95 scientists from 20 countries, this book provides a comprehensive resource for research and for university courses, covering plant and crop physiological responses under normal and stressful conditions ranging from cellular aspects to whole plants.

With contributions from over 70 international experts, this reference provides comprehensive coverage of plant physiological stages and processes under both normal and stressful conditions. It emphasizes environmental factors, climatic changes, developmental stages, and growth regulators as well as linking plant and crop physiology to the production of food, feed, and medicinal compounds. Offering over 300 useful tables, equations, drawings, photographs, and micrographs, the book covers cellular and molecular aspects of plant and crop physiology, plant and crop physiological responses to heavy metal concentration and agrichemicals, computer modeling in plant physiology, and more.

Detailing interrelated topics, this work addresses issues and concerns related to plant and crop stress. This edition includes information on pH stress, temperature stress, water-deficit conditions, carotenoids and stress, light stress, pollution stress, agrichemical stress, oxidative damage to proteins, UV-B induced stress and

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abiotic stress tolerance.

Continuous discoveries in plant and crop physiology have resulted in an abundance of new information since the publication of the second edition of the Handbook of Plant and Crop Physiology, necessitating a new edition to cover the latest advances in the field. Like its predecessors, the Third Edition offers a unique, complete collection of topics in plant and crop physiology, serving as an up-to-date resource in the field. This edition contains more than 90 percent new material, and the remaining 10 percent has been updated and substantially revised. Divided into nine parts to make the information more accessible, this handbook covers the physiology of plant and crop growth and development, cellular and molecular aspects, and production processes. It addresses the physiological responses of plants and crops to environmental stresses, heavy metals, and agrichemicals; presents findings on small RNAs in response to temperature stress; and discusses the use of bioinformatics in plant/crop physiology. The book deals with the impacts of rising CO₂ levels and climate change on plant/crop growth, development, and production. It also offers guidance on plants and crops that can be successfully cultivated under more stressful conditions, presented in six chapters that examine alleviation of future food security issues. With contributions from 105 scientists from 17 countries, this book provides a comprehensive resource for research and for university courses, covering plant physiological processes ranging from the cellular level to whole plants. The content provided can be used to plan,

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implement, and evaluate strategies for dealing with plant and crop physiology problems. This edition includes numerous tables, figures, and illustrations to facilitate comprehension of the material as well as thousands of index words to further increase accessibility to the desired information.

First published in 1987, this two-volume set is an exhaustive compilation of the most recent data on economically important crops. Volume I presents information on genetics, botany and growth of crop plants, while Volume II covers the production of Crops and their utilization.

The burgeoning demand on the world food supply, coupled with concern over the use of chemical fertilizers, has led to an accelerated interest in the practice of precision agriculture. This practice involves the careful control and monitoring of plant nutrition to maximize the rate of growth and yield of crops, as well as their nutritional value.

The CRC Handbook of Alternative Cash Crops describes 128 crop plants that can be grown as alternatives to cultivated crops, such as tobacco, and narcotic crops, such as opium poppy. Material is presented in alphabetical order by genus and species and includes information on ecology, cultivation, harvesting, economics, and biotic factors. This book will be valuable to AID agents, domestic agricultural extension agents, and soil and crop professionals worldwide.

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It is important to include Tuber and Root Crops in the Handbook of Plant Breeding. They include starchy staple crops that are of increasing importance for global food security and relief of poverty, important millennium goals for the United Nations. Indeed, 2008 was the UN International Year of the Potato in recognition of this role of the potato as the world's third most important food crop after wheat and rice. The other major staples are cassava, sweetpotato and yam. Together they occupy about 50 million hectares, with production at 640 million metric tons, of which 70% is in developing countries. In total there are more than 30 species of Root and Tuber Crops grown in the world today. Given the content of other volumes in the series, it makes sense to include sugar and fodder beets; swedes and turnips; and minor root and tuber crops so that the book series is as complete as possible. Like the other volumes in the series, this one will present information on the latest in applied plant breeding using the current advances in the field, from an efficient use of genetic resources to the impact of biotechnology in plant breeding. Seven crop specific chapters are proposed, together with an introduction to this diverse set of plant species. Outstanding scientists for each crop species are proposed as senior authors, who may invite co-authors to contribute part of a chapter. In order to increase the overall acceptance of the volume, balance will be sought with authors from different research groups/countries who will be asked to contribute and collaborate where appropriate. The book should be of interest to researchers in both academic and industrial settings, and in both developed and developing

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countries, as well as students and teachers of plant breeding. It is currently extremely important to educate and train a new generation of plant breeders given the challenges faced by humankind in producing more food for an expanding global population during a period of environmental (including climate) change.

More than a textbook—it's also a valuable reference book for researchers and crop science professionals! The Handbook of Statistics for Teaching and Research in Plant and Crop Science presents the fundamental concepts of important statistical methods and experimental designs to the students and researchers who need to apply them to their own specific problems. This comprehensive handbook takes what can be the difficult and confusing topics of statistics and experimental design and explains them in easily understandable terms, making them accessible to nearly every reader. More than a student textbook, it is an essential reference for researchers and professionals in a multitude of fields. Designed as a two-semester statistical textbook, the first section of the Handbook of Statistics for Teaching and Research in Plant and Crop Science focuses on statistical concepts, providing a foundation of useful knowledge on which you can base your own research. The second section concentrates on experimental designs in plant and crop sciences. The material is presented in a way that helps readers with a minimum of mathematical background to understand important theories and concepts. Derivations of formulas are avoided, and mathematical symbols are used only when essential. To illustrate the computational procedures, data is drawn from

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actual experiments. At the end of each chapter, examples and exercises are given to provide clear insight into real-life problems. A comprehensive appendix of clearly presented statistical tables is included. Part One of Handbook of Statistics for Teaching and Research in Plant and Crop Science focuses on statistical methods, principles, and procedures, exploring: methods of display of statistical information, such as tables, diagrams, graphs, etc. symbols and their use in denoting variables descriptions of types of statistical data methods of computation from raw and graphed data the importance of studying variables and dispersion in research the use of normal probability integral tables and their application to practical problems descriptions of different types of experiments, such as determinate and nondeterminate the significance of expected value in research special techniques in descriptive statistics explanations of population, sample, and statistical inference the significance of null hypothesis in research methods of correlation studies assumptions and principles in regression analysis Part Two concentrates on experimental design, principles and procedures, exploring: basic principles of experimental design the fundamental concepts of linear models and analysis of variance method and layout of Completely Randomized Design (CRD) the advantages and disadvantages of Randomized Complete Block Design (RCBD) methods and procedures for comparison of several treatment means the important features of Latin Square Design factorial experiments split plot design completely confounded design analysis of covariance the Chi Square Test of Significance the transformation of experimental data quality control and so much more! The

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Handbook of Statistics for Teaching and Research in Plant and Crop Science serves not only as a textbook for instructors and students in experimental design and statistics but also as a reference book on plant and crop sciences for professionals and researchers. The comprehensive text is also useful for professionals in other statistic-heavy fields.

The greatest challenge of our time is to produce sufficient food to keep pace with the rapidly growing population. In the opinion of experts, during the next 25 years there will be a need for as much food as was produced in the entire history of mankind to date. Of the various measures available, improvement in agricultural productivity is judged as the ultimate means of augmenting food production and supplies. In this Handbook, an international team of experts consider the most important factors affecting production of both crops and livestock. This Handbook is intended as a scientific guide to practitioners and students, as well as to researchers, who should find here stimulating ideas for further exploration.

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