



Crop Production and Global Environmental Issues [

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Life sciences Climate change Agriculture Plant breeding Life Sciences Agriculture Climate Change/Climate Change Impacts Plant Breeding/Biotechnology

Monografía

Agricultural production has been considered as the key sector for revitalization of the economy and well being of the people in any country. For decades, due to increasing food demand together with policies encouraging production, agricultural science has focused on boosting production through the development of new technologies. Agriculture has become increasingly intensive. Farmers are becoming capable of producing higher yields using less labor and less land due to many factors, including use of fertilizer, and pesticides, introduction of farm machinery, development of hybrid and genetically modified strains and increased knowledge about farm management practices. Intensification of agriculture has not, however, been an unmixed blessing because this success has come at a high environmental cost. The damaging effects of intensification of agriculture include water, air and soil pollution, as well as the loss of wildlife, habitats and landscape features. As agricultural sustainability means maintaining productivity while protecting the natural resource base, there is increasing general recognition of the need to improve environmental performance in agriculture, through enhancing the benefits and reducing the harmful environmental effects. The book 'Crop Production and Global Environmental Issues' is a very timely effort in this direction. It discusses the main environmental issues and challenges which affects the crop production and productivity throughout the globe, particularly in developing countries. The book also provides some solutions to cope up with such challenges

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Contenido: Heavy Metal Stress and Crop Productivity -- Effects of Gamma Radiation on Crop Production -- Pesticide Tolerance and Crop Production -- Implication of Rhizosphere Acidification in Nutrient Uptake by Plants: Cases of Potassium (K), Phosphorus (P) and Iron (Fe) -- Effect of Industrial Pollution on Crop Productivity -- Role of Seed Quality in Improving Crop Yields -- Sustaining Cocoa Production on Oxisols in Malaysia -- Plant Mutagenesis and Crop Improvement -- Effect of Climate Change on Horticultural Crops -- Effect of Elevated Levels of Carbon dioxide on the Activity of RuBisCO and Crop Productivity -- Insect Pest Resistance: An Alternative Approach for Crop Protection -- Biofertilizer for Sustainable Rice Production and Reduction of

Environmental Pollution -- Bread Wheat (*Triticum aestivum* L.) under Biotic and Abiotic Stresses: An Overview -- Use of Alien Diversity to Combat some Major Biotic Stresses in *Triticum aestivum* L -- Sulfur Nutrition of Oil Palm for Enhancing Oil Yield in Tropics -- Genetic Modification of Crop Plants: Issues and Challenges -- Plant Responses and Tolerance to High Temperature Stress: Role of Exogenous Phytoprotectants -- Agricultural Adaptation and Climate Change Policy for Crop Production in Africa -- Causes and Prevention of Cherry Cracking- A Review -- Climate Change and Plants -- Fertilizers and Environment: Issues and Challenges

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