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Effect of Some Plant Growth Regulators on Growth, Yield and Quality of Cotton Effect of Plant Growth Regulators on Growth, Yield and Seed Quality in Cowpea (Vigna Unguiculata (L.) Walp) The Effect of Plant Growth Regulators on Growth, Yield, Quality and Management of an Apple Crop Growing Under an Ultra-high Density Planting System A Thesis Submitted in Fulfilment of the Requirements for the Degree of Doctor of Philosophy at Lincoln University, Canterbury, New Zealand Effect of Plant Growth Regulators on Growth, Yield and Quality of Roselle (Hibiscus Sabdariffa L.) Proceedings of a symposium on "The Effect of interactions between growth regulators on plant growth and yield Plant Growth Regulators Effects on Vegative Growth, Yield and Yield Components in Winter Wheat Three glasshouse experiments and one field experiment were carried out to investigate the effect of the plant growth regulator on vegetative growth and yield components of reduced height isogenic lines of the wheat (Triticum aestivum L.) cultivar Mercia. The first experiment compared the growth regulator response of seven isogenic lines of Mercia. Subsequent experiments used four lines, (Mercia control, Rhtl Rht2, and Rht8). Two glasshouse experiments examined the responses under well watered and water stress conditions. The third glasshouse experiment examined rates and time of application under well watered conditions, whilst the field experiment had different rates of application. In all experiments growth regulators reduced plant height significantly in all lines. Growth regulator decreased total dry matter and grain yield with greatest reduction generally for the control and Rht8 lines. Rhtl was the least affected. There were few significant effects of growth regulator on gas exchange and chlorophyll fluorescence but the trend was for greater values with growth regulator. In the first glasshouse experiment, a rate of 2.0 1 ha-1 applied just before the third node detectable stage under non water stressed and water stressed conditions gave slight increases in yield of up to 14% except for line Rht10 which increased significantly in non-stressed conditions. In the second glasshouse experiment, a rate of 2.5 1 ha" applied at the start of stem elongation under 30% FC and 100% FC gave reductions in yield up to 16% for the growth regulator and 55% under water stress. In the field experiment, rates of 2.5 and 3.0 1 ha-1 applied at the start of stem elongation gave reductions in yield up to 20% mainly through individual seed weight. In the final glasshouse experiment, rates of 2.5 and 3.0 1 ha-l applied at 6 leaves unfolded and 1st node detectable both reduced grain yield. **Effect of Growth Regulators on Growth, Yield and Quality of Flowers in Tuberose Cv. Single The Effect of Plant Growth Regulators on Growth and Yield of Soybean Glycine Max (L) Merr Effect of Various Growth Regulators on Growth Yield and Quality of Ber Effect of Growth Regulators on Growth, Yield and Quality of Ginger (Zingiber Officinal Rosc.) Cv. Himachal Pradesh Effect of Planting Time, Nutrition and Growth Regulators on Growth, Yield and Quality of Tuberose Cv. Single Proceedings of a Symposium on the Effect of Interactions Between Growth Regulators On Plant Growth and Yield, 10Th October 1978 Effect of Growth Regulators on Growth, Yield and Quality of Brinjal (Solanum MolongemaL.) Impact of Plant Growth Regulators Seed Treatment on Germination, Growth, Yield and Quality of Okra The Effect of Interactions Between Growth Regulators on Plant Growth and Yield Proceedings of a Symposium Held at the Natural History Museum, London, 10th October 1978 Effect of Growth Regulators on Growth, Yield and Quality of Turmeric (Curcuma Domestica Val.) Cv. Bangalore Local The Effect of Interactions Between Growth Regulators on Plant Growth and Yield Proceedings of a Symposium, 10th October, 1978, Held at the Natural History Museum London The Effect of Interactions Between Growth Regulators on Plant Growth and Yield Symposium : Papers Effect of Trace Elements and Growth Regulators on Growth, Yield and Quality of Bottle Gourd [With CD Copy]\ Effect of Growth Regulators on Growth and Yield of Onion Cv. N-53 Effect of Growth Regulators on Growth, Yield and Nutrient Uptake of Groundnut (Arachis Hypogaca L.) CV, JL 24 Effect of Certain Growth Regulators on the Vegetative Growth, Yield, and Quality of Alpha and Arran Banner Potatoes Effect of Plant Growth Regulators on Growth and Yield of Summer Mungbean (Vigna Radiata L.). Proceedings of a Symposium on the Effect of Interactions Between Growth Regulators on Plant Growth and Yield, 1978, Held at the Natural History Museum, London Effect of Plant Growth Regulators and Fruit Load on the Yield and Quality of Okra Seed The Effects of Plant Growth Regulators on Cotton Yield in Two Environments The Effect of Plant Growth Regulators on Plant Height, Lodging and Yield in Barley The Effect of Interactions Between Growth Regulators on Plant Growth and Yield Proceedings of a Symposium, 10th October , 1978, Held at the Natural History Museum, London Studies on the Effect of Different Levels of Pruning and Plant Growth Regulators on Growth, Yield and Quality Parameters of Rose (Rosa Indica L.)cv. Glandiator Plant Growth Regulators Signalling Under Stress Conditions** Springer Nature Agriculture faces many challenges to fulfil the growing demand for sustainable food production and ensure high-quality nutrition for a rapidly growing population. To guarantee adequate food production, it is necessary to increase the yield per area of arable land. A method for achieving this goal has been the application of growth regulators to modulate plant growth. Plant growth regulators (PGRs) are substances in specific formulations which, when applied to plants or seeds, have the capacity to promote, inhibit, or modify physiological traits, development and/or stress responses. They maintain proper balance between source and sink for enhancing crop yield. PGRs are used to maximize productivity and quality, improve consistency in production, and overcome genetic and abiotic limitations to plant productivity. Suitable PGRs include hormones such as cytokinins and auxins, and hormone-like compounds such as mepiquat chloride and paclobutrazol. The use of PGRs in mainstream agriculture has steadily increased within the last 20 years as their benefits have become better understood by growers. Unfortunately, the growth of the PGR market may be constrained by a lack of innovation at a time when an increase in demand for new products will require steady innovation and discovery of novel, cost-competitive, specific, and effective PGRs. A plant bio-stimulant is any substance or microorganism applied to plants with the aim to enhance nutrition efficiency, abiotic stress tolerance and/or crop quality traits, regardless of its nutrients content. Apart from traditional PGRs, which are mostly plant hormones, there are a number of substances/molecules such as nitric oxide, methyl jasmonate, brassinosteroids, seaweed extracts, strigolactones, plant growth promoting rhizobacteria etc. which act as PGRs. These novel PGRs or bio-stimulants have been reported to play important roles in stress responses and adaptation. They can protect plants against various stresses, including water deficit, chilling and high temperatures, salinity and flooding. This book includes chapters ranging from sensing and signalling in plants to translational research. In addition, the cross-talk operative in plants in response to varied signals of biotic and abiotic nature is also presented. Ultimately the objective of this book is to present the current scenario and the future plan of action for the management of stresses through traditional as well as novel PGRs. We believe that this book will initiate and introduce readers to state-of-the-art developments and trends in this field of study. **Effect of Growth Regulators on Growth and Yield of Safflower (Carthanus Tincterius L.) Genotypes Effect of Growth Regulators on Growth Development and Yield of Groundnut The Effect of Plant Growth Regulators on Lodging, Culm Characteristics and Yield in Spring Wheat Effect of Plant Growth Regulators on Growth, Flowering, Yield and Longevity of Chrysanthemum (Chrysanthemum Indicam L.). Effect of Growth Regulators on Morphological Characteristics, Seed Quality, and Yield of Peanuts in Florida and Guyana The Effect of Plant Growth Regulators on Plant Height, Lodging and Yield in Barley Effect of Certain Growth Regulators on the Vegetative Growth, Yield and Protein Centent of Beans (Phaseolus Vulgaris L.). Effect of Plant Growth Regulators on Growth Flowering and Yield of Marigold (Tagetes Erecta L.). The Effect of Plant Growth Regulators on the Growth and Yield of Barley A Thesis Submitted in Partial Fulfilment of the Requirements for the Degree of Master of Agriculture [i.e. Agricultural] Science in the University of Canterbury [Lincoln College] Evaluation of the Effect of Selected Plant Growth Regulators on Soybean Yield Parameters in South Africa** Abscisic acid -- Forchlorfenuron -- Gibberellic acid -- Glycine max -- Plant growth regulator -- Naphthalene acetic acid -- South Africa -- Yield.