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Nota di contenuto	CLIMATE CHANGE AND COTTON PRODUCTION IN MODERN FARMING SYSTEMS; COPYRIGHT; CONTENTS; LIST OF ABBREVIATIONS; SUMMARY; I INTRODUCTION; II CLIMATE CHANGE IMPACTS ON MAJOR COTTON PRODUCTION REGIONS; III CLIMATE CHANGE IMPACTS ON COTTON GROWTH AND PRODUCTION; 3.1. Impacts on Cotton Physiology, Growth, Yield and Quality; 3.1.1. Technologies used in climate change investigations in cotton; Controlled environments; Soil-plant-atmosphere-research; Canopy evapotranspiration and assimilation; Open top chambers; Free-air CO2 enrichment; 3.1.2. Effect of elevated CO2 concentration Photosynthesis and respirationStomatal conductance and transpiration; Phenology; Growth, yield and fibre quality; 3.1.3 Effect of elevated temperature; Photosynthesis and respiration; Stomatal conductance and transpiration; Phenology; Growth, yield and fibre quality; 3.1.4. Effect of vapour pressure deficit; 3.1.5. Effect of drought; Photosynthesis and respiration; Stomatal conductance and transpiration; Growth, yield and fibre quality; 3.1.6. Effect of rainfall intensity (flooding/waterlogging); 3.1.7. Interactive effects of climate

change; Combined temperature and carbon dioxide effect  
Combined CO<sub>2</sub> and water stress effects  
3.2. Climate Change Impacts on Pests and Diseases; 3.3. Climate Change Impacts on Soils; 3.3.1. Effect of elevated CO<sub>2</sub> concentration; 3.3.2. Effect of elevated temperature; 3.3.3. Effect of drought; 3.3.4. Effect of rainfall intensity (flooding/waterlogging); IV MANAGEMENT APPROACHES TO ADAPT TO IMPACTS OF CLIMATE CHANGE; 4.1. Cultivar Change; 4.2. Season Length and Planting Date; 4.3. Pest Management; 4.4. Water and Irrigation Management; 4.5. Management of Cotton Crops with Plant Growth Regulators  
4.6. Crop Diversification with Crop Rotations and Cover Crops  
4.7. Utilizing Seasonal Climate Forecasts; 4.8. Optimizing Efficiency of Resource Inputs; 4.8.1. Crop nitrogen use; 4.8.2. Crop water use; 4.9. Soil Management; V ROLE OF RESEARCH IN MODERN COTTON SYSTEMS ADAPTING TO CLIMATE CHANGE; 5.1. Genetic Improvement and Cotton Physiology; 5.2. Soil Management; 5.3. Cotton System Management; 5.3.1. Climate information and use; 5.3.2. Policy and industry considerations; 5.3.3. Crop management; VI CONCLUSION; REFERENCES

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