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USE EFFICIENCIES FOR DRIP IRRIGATED MAIZE; CHAPTER 9: PERFORMANCE OF DRIP IRRIGATED YELLOW CORN: KINGDOM OF SAUDI ARABIA; CHAPTER 10: WATER AND FERTILIZER USE EFFICIENCIES FOR DRIP IRRIGATED CORN: KINGDOM OF SAUDI ARABIA CHAPTER 11: PERFORMANCE OF DRIP IRRIGATED SOYBEAN CHAPTER 12: DRIP IRRIGATION IN RICE; CHAPTER 13: EVALUATION OF EMITTER CLOGGING FOR DRIP IRRIGATED SNAP BEANS; CHAPTER 14: EVALUATION OF EMITTER CLOGGING; CHAPTER 15: EVAPOTRANSPIRATION FOR CYPRESS AND PINE FORESTS: FLORIDA, USA1; APPENDIX A: CONVERSION SI AND NON-SI UNITS; APPENDIX B: PIPE AND CONDUIT FLOW; APPENDIX C: PERCENTAGE OF DAILY SUNSHINE HOURS: FOR NORTH AND SOUTH HEMISPHERES; APPENDIX D: PSYCHOMETRIC CONSTANT (γ) FOR DIFFERENT ALTITUDES (Z); APPENDIX E: SATURATION VAPOR PRESSURE [e_s] FOR DIFFERENT TEMPERATURES (T) APPENDIX F: SLOPE OF VAPOR PRESSURE CURVE (γ) FOR DIFFERENT TEMPERATURES (T) APPENDIX G: NUMBER OF THE DAY IN THE YEAR (JULIAN DAY); APPENDIX H: STEFAN-BOLTZMANN LAW AT DIFFERENT TEMPERATURES (T); APPENDIX I: THERMODYNAMIC PROPERTIES OF AIR AND WATER; Back Cover

Sommario/riassunto

Closed circuit trickle irrigation is a form of micro irrigation that increases energy and water efficiency by using closed circuit drip irrigation systems designs. Modifications are made to traditional micro irrigation methods to reduce some of the problems and constraints, such as low compressor water at the end of irrigation lines. This approach has proved successful for the irrigation of fruit trees and some vegetable and field crops. Closed circuits of drip irrigation systems require about half of the water needed by sprinkler or surface irrigation. Lower operating pressures and flow rates
