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Nota di contenuto	FRONT COVER; ABOUT THE EDITOR; CONTENTS; ACKNOWLEDGMENT AND HOW TO CITE; LIST OF CONTRIBUTORS; INTRODUCTION; PART I - WATER; CHAPTER 1 - A STATISTICAL ASSESSMENT OF THE IMPACT OF AGRICULTURAL LAND USE INTENSITY ON REGIONAL SURFACE WATER QUALITY AT MULTIPLE SCALES; CHAPTER 2 - DISCUSSION ON SUSTAINABLE WATER TECHNOLOGIES FOR PERI-URBAN AREAS OF MEXICO CITY: BALANCING URBANIZATION AND ENVIRONMENTAL CONSERVATION; PART II - SOIL AND LAND; CHAPTER 3 - EVALUATION OF POST-HARVEST ORGANIC CARBON AMENDMENTS AS A STRATEGY TO MINIMIZE NITROGEN LOSSES IN COLE CROP PRODUCTION CHAPTER 4 - SUSTAINABILITY OF US ORGANIC BEEF AND DAIRY PRODUCTION SYSTEMS: SOIL, PLANT AND CATTLE INTERACTIONSCHAPTER 5 - CHANGES OF SOIL BACTERIAL DIVERSITY AS A CONSEQUENCE OF AGRICULTURAL LAND USE IN A SEMI-ARID ECOSYSTEM; PART III - ENERGY AND GREENHOUSE GASES; CHAPTER 6 - A GREENHOUSE GAS AND SOIL CARBON MODEL FOR ESTIMATING THE CARBON FOOTPRINT OF LIVESTOCK PRODUCTION IN CANADA; CHAPTER 7 - DIESEL CONSUMPTION OF AGRICULTURE IN CHINA; CHAPTER 8 - ENERGY SAVINGS BY ADOPTING PRECISION AGRICULTURE IN RURAL USA CHAPTER 9 - REDUCING CARBON EMISSIONS THROUGH IMPROVED

IRRIGATION MANAGEMENT: A CASE STUDY FROM PAKISTANPART IV - IMPACT OF POPULATION GROWTH; CHAPTER 10 - IMPACT OF A GROWING POPULATION IN AGRICULTURAL RESOURCE MANAGEMENT: EXPLORING THE GLOBAL SITUATION WITH A MICRO-LEVEL EXAMPLE; CHAPTER 11 - CROP BREEDING FOR LOW-INPUT AGRICULTURE: A SUSTAINABLE RESPONSE TO FEED A GROWING WORLD POPULATION; CHAPTER 12 - SPATIAL-TEMPORAL VARIATION OF POPULATION GROWTH AND SUSTAINABILITY OF FOOD GRAIN PRODUCTION IN WEST BENGAL, INDIA; AUTHOR NOTES; BACK COVER

Sommario/riassunto

Agriculture is one of the prime users of water, particularly in arid places with already-limited water resources, and its effects are diverse and far reaching. Providing a nuanced study of agricultural resource management, this informative book takes a four-pronged approach, covering research on: The impact of agriculture on water The impact of agriculture on soil quality and its ecological health Energy and greenhouse gases The impact of a growing population on agricultural resourcesTopics include the connection between chemical fertilizer use in agriculture and stream water quality; beef a