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Nota di contenuto	Intro -- WATERSHEDS: PROCESSES, MANAGEMENT AND IMPACT -- WATERSHEDS: PROCESSES, MANAGEMENT AND IMPACT -- LIBRARY OF CONGRESS CATALOGING-IN-PUBLICATION DATA -- CONTENTS -- PREFACE -- Chapter 1: EFFECTS OF THINNING ON MATERIALTRANSFORMATION IN CRYPTOMERIAJAPONICA STAND IN A WATERSHEDIN EASTERN JAPAN -- ABSTRACT -- 1. INTRODUCTION -- 2. SEASONAL CHANGES OF MATERIAL TRANSFORMATION -- 2.1. Nitrogen Fixation -- 2.2. Greenhouse Gas Fluxes from Soil -- 2.3. Trace Metals Cycling -- 3. EFFECTS OF THINNING ON MATERIALTRANSFORMATION -- 3.1. Nitrogen Supply to the Soil with Decomposing GreenNeedles Returned by Non-Commercial Thinning -- 3.2. Dynamics of the Aboveground C and N -- CONCLUSION -- ACKNOWLEDGMENTS -- REFERENCES -- Chapter 2: NATURAL AND HUMAN INFLUENCES ONTHE INORGANIC WATER CHEMISTRYIN AN ARID LAND OF NORTHERNXINJIANG, CHINA -- ABSTRACT -- 1. INTRODUCTION -- 2. REGIONAL BACKGROUND -- 3. METHODOLOGY -- 4. INORGANIC WATER CHEMISTRY OF THE NORTHERNXINJIANG - GENERAL CHARACTERIZATION -- 5. FACTORS CONTROLLINGTHE

INORGANIC WATER CHEMISTRY -- 5.1. Atmospheric Input -- 5.2. Rock Weathering -- 5.3. Anthropogenic Input -- 5.4. Climate Effect -- 5.4.1. Zonal Distribution Patterns of Hydrochemistry -- 5.4.2. Evaporation Effect -- 5.5. Contributions from Precipitation and Weathering Input -- CONCLUSION -- ACKNOWLEDGMENTS -- REFERENCES -- Chapter 3: SUMMER HOLDING AREAS OF THE GULF STURGEON WITHIN THE CONE CUH/ESCAMBIA RIVER SYSTEM, ALABAMA AND FLORIDA -- ABSTRACT -- INTRODUCTION -- STUDY AREA -- METHODS -- RESULTS -- Initial-Location Gulf Sturgeon Location Telemetry -- Summer Holding Area Telemetry and Gulf Sturgeon Movement Patterns -- DISCUSSION -- Movement and Habitat Selection -- CONCLUSION -- ACKNOWLEDGMENTS -- REFERENCES -- Chapter 4: CLIMATE CHANGE AND ITS EFFECT ON FLORIDA WATERSHEDS -- ABSTRACT -- INTRODUCTION -- EFFECTS OF CLIMATE CHANGE. Sea Level Rise -- Temperature -- Precipitation -- Water Resources -- Land Use -- CLIMATE CHANGE ADAPTATION PLANS FOR FLORIDA -- CONCLUSION -- REFERENCES -- Chapter 5: FACTORS AFFECTING FARMERS' ADOPTION OF BEST MANAGEMENT PRACTICES IN ONTARIO'S GRAND RIVER WATERSHED -- INTRODUCTION -- FACTORS MOTIVATING FARMERS TO INTRODUCE BMPS -- THE STUDY AREAS -- RESEARCH METHODS -- MORE FINDINGS -- FOLLOW-UP INTERVIEWS AND SURVEYS IN THE CANAGAGIGUE CREEK (CC) AREA -- DISCUSSION -- CONCLUSION -- REFERENCES -- Chapter 6: ADAPTATION OF NATIONAL ELEVATION DATASET TO ESTIMATE DEPRESSION STORAGE IN A GLACIATED WATERSHED -- ABSTRACT -- INTRODUCTION -- MATERIALS AND METHODS -- The Forest River Watershed -- Datasets Used -- Study Methods -- RESULTS AND DISCUSSION -- Classification of the Sections -- Computed PDSC -- Sensitivity of PDSC Estimation to Breach Elevation Value -- CONCLUSION -- REFERENCES -- INDEX.

Sommario/riassunto

This book examines the management and impacts of watersheds on the ecosystem process. The authors present topics including the effects of thinning on material transformation in a stand of *Cryptomeria japonica* in a watershed in eastern Japan; natural and human influences on the inorganic water chemistry of the northern Xinjiang rivers in China; current land use within the Conecuh/Escambia River watershed in the Gulf of Mexico; factors affecting farmers' adoption of best management practices in Ontario's Grand River watershed; and the adaptation of national elevation dataset to estimate depression storage in a glaciated watershed.
