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florida s water poses fundamental questions about water sustainability in the united states fourth largest state florida has long standing water quality problems global climate change threatens to intensify florida s floods and droughts make hurricanes more common or more damaging and eventually submerge much of low lying florida including the everglades how can florida meet these extraordinary challenges and what lessons does the florida experience hold for other states this book fully integrates the many diverse responsibilities of water management into a readable and compelling combination of interesting narratives and deep analysis author tom swihart s unique intimate knowledge of florida s successes and failures in water management brings out both the novelty of florida s water situation and the features that it has in common with other states water is the common lifeline for the natural and built environments in south florida engineered flood control and water distribution systems agriculture growth and development have disrupted the region s water quality quantity timing and distribution i e the hydro pattern agricultural runoff and urban stormwater have introduced high levels of phosphorus mercury and other contaminants into the water system polluting lakes rivers estuaries and the everglades in 1948 congress answered the outcry of florida residents for both flood protection and a more reliable drinking water supply by authorizing the central and southern flood control project otherwise known as the c sf project shortly thereafter the u s army corps of engineers began construction on one of the nation s largest infrastructure projects while the project served its intended purposes far better than ever anticipated it also caused extensive damage to the naturally occurring ecosystems of south florida including the everglades ecosystem located within and beyond everglades national park here is a history of the construction of the c sf project and the project s unintended impacts on the environment and the evolution of the comprehensive

everglades restoration plan cerp fema pagf awarded to south florida water mgt district under hurricane charley report florida historical society stetson kennedy award florida book awards bronze medal for florida nonfiction america s wettest state is running out of water florida with its swamps lakes extensive coastlines and legions of life giving springs faces a drinking water crisis drying up is a wake up call and a hard look at what the future holds for those who call florida home journalist and educator john dunn untangles the many causes of the state s freshwater problems drainage projects construction and urbanization especially in the fragile wetlands of south florida have changed and shrunk natural water systems pollution failing infrastructure increasing outbreaks of toxic algae blooms and pharmaceutical contamination are worsening water quality climate change sea level rise and groundwater pumping are spoiling freshwater resources with saltwater intrusion because of shortages fights have broken out over rights to the apalachicola river lake okeechobee the everglades and other important watersheds many scientists think florida has already passed the tipping point dunn warns drawing on more than one hundred interviews and years of research he affirms that soon there will not be enough water to meet demand if business as usual prevails he investigates previous and current restoration efforts as well as proposed future solutions including the soft path for water approach that uses green infrastructure to mimic natural hydrology as millions of new residents are expected to arrive in florida in the coming decades this book is a timely introduction to a problem that will escalate dramatically and not just in florida dunn cautions that freshwater scarcity is a worldwide trend that can only be tackled effectively with cooperation and single minded focus by all stakeholders involved local and federal government private enterprise and citizens he challenges readers to rethink their relationship with water and adopt a new philosophy that compels them to protect the planet s most precious resource fema public assistance grant funds awarded to south florida water management district under hurricane frances this engrossing exposé tackles some of the most important issues of our time is it possible to save a complex ecosystem such as the everglades or once degraded are such ecological wonders gone forever what kind of commitments economic scientific and social will it take to rescue our vulnerable natural resources what influences do special interests wield in our everyday lives and what does

it take to push real reform through our democracy a must read for anyone fascinated by stories of political intrigue and the work of environmental crusaders like erin brockovich as well as anyone who cares about the future of florida this book reveals why the everglades serve as a model and a warning for environmental restoration efforts worldwide the south florida water management district sfwmd or district water supply department participated in this project to support the sfwmd hydrologic environmental systems modeling hesm department and to help quantify the interaction between surface water and groundwater near the c 2 canal in miami dade county florida the hesm department requested field measurements along the c 2 canal near the southwest alexander orr and snapper creek wellfields to improve the calibration of the sfwmm and the nsm in miami dade county the investigation focused on trying to quantify the freshwater flow to biscayne bay that is being intercepted in the c 2 canal by pumping from the snapper creek alexander orr and southwest wellfields the investigation combined data from different sources to help meet its goals groundwater levels surface water levels wellfield withdrawal data and stream gauging data this book should be a reference source for all anglers who fish or wish to fish in the future the waters of south florida this region has three of the state s five largest lakes each chapter focuses on the name lakes and rivers in the region that almost always produce good bass fishing and on many overlooked waters that quietly produce good bass fishing as well this 1996 report summarizes water quality conditions issues of concern and management efforts underway in southern florida it refers to the most important water quality literature pertaining to southern florida to water quality studies that are underway or planned and to topics which are of high priority in the study unit these topics include the availability and suitability of water for competing demands nutrient enrichment of the everglades transport degradation and effects of pesticides and the sources and cycling of mercury in the ecosystem the report also includes a retrospective analysis and conceptual presentation of nutrient loading the water science and technology board and the board on environmental studies and toxicology have released the seventh and final report of the committee on restoration of the greater everglades ecosystem which provides consensus advice to the south florida ecosystem restoration task force on various scientific and technical topics human settlements

and flood control structures have significantly reduced the everglades which once encompassed over three million acres of slow moving water enriched by a diverse biota to remedy the degradation of the everglades a comprehensive everglades restoration plan was formulated in 1999 with the goal of restoring the original hydrologic conditions of its remaining natural ecosystem a major feature of this plan is providing enough storage capacity to meet human needs while also providing the needs of the greater everglades ecosystem this report reviews and evaluates not only storage options included in the restoration plan but also other options not considered in the plan along with providing hydrologic and ecological analyses of the size location and functioning of water storage components the report also discusses and makes recommendations on related critical factors such as timing of land acquisition intermediate states of restoration and tradeoffs among competing goals and ecosystem objectives description of the south florida ecosystem and changes resulting from man s activities treatment marshes for runoff and polishing represents the most comprehensive and up date date resource for the design construction and operation of marsh treatment systems this new edition represents a complete rewrite of the surface flow sections of previous editions of treatment wetlands it is based on the performance hundreds of treatment marshes over the past 40 years treatment marshes focuses on urban and agricultural runoff river and lake water improvement and highly treated municipal effluents new information from the past dozen years is used to improve data interpretation and design concepts topics included in this book are diversity of marsh vegetation analyses of the human use of treatment marshes new concepts of underground processes and functions spectrum of marsh values spanning mitigation restoration enhancement and water quality improvement improved methods for calculation of evapotranspiration and wetland water temperatures hydraulics of surface and subsurface flows in marshes analysis of long track records for deterministic and probabilistic behavior consideration of integrated microbial and vegetative contaminant removals via mass balances uptake and emission of gases performance of urban and agricultural wetlands design procedures for urban and agricultural wetlands reduction of trace metals pesticides pharmaceuticals endocrine disruptors and trace organics updated capital and o m economics and valuation of

ancillary benefits an updated list of over 1900 references

Technical Publication - Resource Planning Department, South Florida Water Management District

1985

Florida's water poses fundamental questions about water sustainability in the United States, fourth largest state. Florida has long-standing water quality problems. Global climate change threatens to intensify Florida's floods and droughts, make hurricanes more common or more damaging, and eventually submerge much of low-lying Florida, including the Everglades. How can Florida meet these extraordinary challenges, and what lessons does the Florida experience hold for other states? This book fully integrates the many diverse responsibilities of water management into a readable and compelling combination of interesting narratives and deep analysis. Author Tom Swihart's unique, intimate knowledge of Florida's successes and failures in water management brings out both the novelty of Florida's water situation and the features that it has in common with other states.

Advisory System for South Florida Water Management

1988

Water is the common lifeline for the natural and built environments in South Florida. Engineered flood control and water distribution systems, agriculture, growth, and development have disrupted the region's water quality, quantity, timing, and distribution. I.e., the hydro-pattern: agricultural runoff and urban stormwater have introduced high levels of phosphorus, mercury, and other contaminants into the water system, polluting lakes, rivers, estuaries, and the Everglades.

South Florida Water Management District Strategic Plan 2012-2017

2012

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South Florida Water Management District: Environmental Protection Agency Supageslemental Order Authorizing Interim Discharge

2012-06-25

fema pagf awarded to south florida water mgt district under hurricane charley report

Water for South Florida

1998

florida historical society stetson kennedy award florida book awards bronze medal for florida nonfiction america's wettest state is running out of water florida with its swamps lakes extensive coastlines and legions of life giving springs faces a drinking water crisis drying up is a wake up call and a hard look at what the future holds for those who call florida home journalist and educator john dunn untangles the many causes of the state's freshwater problems drainage projects construction and urbanization especially in the fragile wetlands of south florida have changed and shrunk natural water systems pollution failing infrastructure increasing outbreaks of toxic algae blooms and pharmaceutical contamination are worsening water quality climate change sea level rise and groundwater pumping are spoiling freshwater resources with saltwater intrusion because of shortages fights have broken out over rights to the apalachicola river lake okeechobee the everglades and other important watersheds many scientists think florida has already passed the tipping point dunn warns drawing on more than one hundred interviews and years of research he affirms that soon there will not be enough water to meet demand if business as usual prevails he investigates previous and current restoration efforts as well as proposed future solutions including the soft path for water approach that uses green infrastructure to mimic natural hydrology as millions of new residents are expected to arrive in florida in the coming decades this book is a timely introduction to a problem that will escalate dramatically and not just in florida dunn cautions that freshwater scarcity is a worldwide trend that can only be tackled effectively with cooperation and single minded focus by all stakeholders involved local and federal government private enterprise and citizens he challenges readers to rethink their relationship with water and adopt a new philosophy that compels them to protect the planet's most precious resource

Florida's Water

1990

fema public assistance grant funds awarded to south florida water management district under hurricane frances

Success in the Making

2011

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Public-supply Water Use in Florida, 1987

1976

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quantify the interaction between surface water and groundwater near the c 2 canal in miami dade county florida the hesm department requested field measurements along the c 2 canal near the southwest alexander orr and snapper creek wellfields to improve the calibration of the sfwmm and the nsm in miami dade county the investigation focused on trying to quantify the freshwater flow to biscayne bay that is being intercepted in the c 2 canal by pumping from the snapper creek alexander orr and southwest wellfields the investigation combined data from different sources to help meet its goals groundwater levels surface water levels wellfield withdrawal data and stream gauging data

River of Interests

1984

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Analysis of Historical Water-quality Data and Description of Plan for a Sampling Network in Central and Southern Florida

2000

this 1996 report summarizes water quality conditions issues of concern and management efforts underway in southern florida it refers to the most important water quality literature pertaining to southern florida to water

quality studies that are underway or planned and to topics which are of high priority in the study unit these topics include the availability and suitability of water for competing demands nutrient enrichment of the everglades transport degradation and effects of pesticides and the sources and cycling of mercury in the ecosystem the report also includes a retrospective analysis and conceptual presentation of nutrient loading

Subsurface Storage of Freshwater in South Florida

2000

the water science and technology board and the board on environmental studies and toxicology have released the seventh and final report of the committee on restoration of the greater everglades ecosystem which provides consensus advice to the south florida ecosystem restoration task force on various scientific and technical topics human settlements and flood control structures have significantly reduced the everglades which once encompassed over three million acres of slow moving water enriched by a diverse biota to remedy the degradation of the everglades a comprehensive everglades restoration plan was formulated in 1999 with the goal of restoring the original hydrologic conditions of its remaining natural ecosystem a major feature of this plan is providing enough storage capacity to meet human needs while also providing the needs of the greater everglades ecosystem this report reviews and evaluates not only storage options included in the restoration plan but also other options not considered in the plan along with providing hydrologic and ecological analyses of the size location and functioning of water storage components the report also discusses and makes recommendations on related critical factors such as timing of land acquisition intermediate states of restoration and tradeoffs among competing goals and ecosystem objectives

Restoration of the Everglades and South Florida Ecosystem

1996

description of the south florida ecosystem and changes resulting from man s activities

Everglades Consolidated Report

2018-08-04

treatment marshes for runoff and polishing represents the most comprehensive and up date date resource for the design construction and operation of marsh treatment systems this new edition represents a complete rewrite of the surface flow sections of previous editions of treatment wetlands it is based on the performance hundreds of treatment marshes over the past 40 years treatment marshes focuses on urban and agricultural runoff river and lake water improvement and highly treated municipal effluents new information from the past dozen years is used to improve data interpretation and design concepts topics included in this book are diversity of marsh vegetation analyses of the human use of treatment marshes new concepts of underground processes and functions spectrum of marsh values spanning mitigation restoration enhancement and water quality improvement improved methods for calculation of evapotranspiration and wetland water temperatures hydraulics of surface and subsurface flows in marshes analysis of long track records for deterministic and probabilistic behavior consideration of integrated microbial and vegetative contaminant removals via mass balances uptake and emission of gases performance of urban and agricultural wetlands design procedures for urban and agricultural wetlands reduction of trace metals pesticides pharmaceuticals endocrine disruptors and trace organics updated capital and o m economics and valuation of ancillary benefits an updated list of over

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2019-02-08

Review of Selected Features of the Natural System Model, and Suggestions for Applications in South Florida

2018-08-04

Drying Up

2021-03-02

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Moving Water

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2019-07-09

The Environment of South Florida

Evaluation of the Water Management System at a Single Family Residential Site

Treatment Marshes for Runoff and Polishing

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