

Point Sources
of Pollution

Nonpoint
of Pollution

Treatment

WATER RESOURCES: A NEW ERA FOR COORDINATION

WILLIAM WHIPPLE, JR.

Potable water

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Water Resources: A New Era for Coordination

WILLIAM WHIPPLE, JR.



1801 Alexander Bell Drive
Reston, Virginia 20191-4400

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Abstract: *Water Resources: A New Era for Coordination* is a book that relates the current problems of water resources developments. Geared toward those professionals with basic engineering knowledge, it covers topics in the field, such as the environment, population and development, water supply, floods and flood control, navigation, hydroelectric power, irrigation, multiple (comprehensive) purpose planning system, water quality and pollution control, runoff control/storm water management and standards, coordination under present institutions, and coordination through federal/state planning. It stresses the need for coordination between current environmental regulations and water resources planning, though it also covers much of the history of water resources planning. This book precedes a national conference on this most important issue that will take place in Chicago in June, 1998.

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Preface

The impetus to write this book came largely from my three years of experience as consultant for the Corps of Engineers, attempting to find a solution for the problems of the Chattahoochee, Apalachicola, and related rivers in the Southeast, and working on problems of drought management in other parts of the United States. It became apparent that water resource planning activities today are basically different from what they were in past years, when I worked on the Missouri River, the Columbia River, and the Arkansas River. All of these rivers had very difficult problems to solve, but the process of getting the municipalities, states, and other agencies to agree to a solution seemed much simpler. Planners could work on the problems directly and openly with reasonable expectations of agreement. Today, various agencies and groups have agendas of their own, and they hardly seem to speak the same language. It is as though we were engaged in some great game, with no fixed rules and no referee, with various groups each seeking its own advantage. The main effort of planners has to be negotiation and public relations rather than getting on with the job of finding a solution to the problem. I came to feel that it is urgent that some better means of coordination be devised.

Gradually, after discussions, a group of prominent water resource planners came to agree with this viewpoint. The ASCE became interested, and government agencies agreed to cosponsor a national conference on the coordination between environmental regulations and water resources planning to be held in June 1998 in Chicago. I will be heavily involved in the conduct of this conference.

Meanwhile, the ASCE requested I write a book about the new era in water resources planning and management. I wish to express deep appreciation for the valuable assistance of friends and associates in preparing this book. Neil Grigg of Colorado State University reviewed pre-

liminary drafts of the entire text and gave helpful suggestions. Harold Woods of New Jersey American Water Company gave valuable information on the new processes of water treatment by ozonation. Thomas Cawley, former president of Elizabethtown Water Company, helpfully reviewed the chapter on water supply. Richard Palmer of the University of Washington provided details on the modern use of computers in complex interagency planning. Many others gave assistance by their influence through past associations and writings and by preparing materials for the conference. Helaine Randerson did a superb job of manuscript preparation and also drew the illustrations.

However, for any errors, undiplomatic bluntness, and the novel suggestions about federal-state planning, I am wholly responsible.

William Whipple, Jr.

Contents

Prefaceiii

Chapter 1

- Introduction 1
- Concept of this Book..... 1
- Classification of Water Uses and Effects 2
- Objectives of Water Resources Development 3
- Government Agencies and Their Functions 6

Chapter 2

- Environment 11
- Introduction 11
- Wetlands Control and Stream Restoration 15
- Parks and Constructed Environments 20
- Water Quality 21
- Environmental Effects Downstream of Dams 21
- Endangered Species 22
- Relative and Absolute Values 23

Chapter 3

- Population and Development 27
- Introduction 27
- Birth Rate, Immigration, and the World Picture 27

	Urbanization, Industry, and Deterioration of Large Cities	28
	Encroachment upon Open Space and Agriculture ...	28
	Nonpoint-Source Pollution	29
	Conclusion	29
Chapter 4	Water Supply	31
	Introduction	31
	Value of Benefits	32
	Rivers, Lakes, and Reservoirs	32
	Groundwater and Its Conjunctive Use	34
	Treatment, Including Ozonation	35
	Reprocessing Wastewater	37
	Desalination	37
	Water Supply Problems	39
	Water Supply Critical Areas	40
	Water Supply Drought Management	45
Chapter 5	Floods and Flood Control	51
	Major Floods of the Past	51
	Floodplain Management	53
	Special Districts	57
	Benefit Evaluation	57
	Flood Control Storage	58
	Runoff Pollution	59
	Environmental Use of Floodplain Zoning	60
	Summary	61

Chapter 6	Navigation, Hydroelectric Power, and Irrigation	63
	Navigation, General	63
	Current Navigation Programs	64
	Benefit Values of Navigation	64
	Hydroelectric Power, General	64
	Hydroelectric Power Operations	65
	Controversies Related to Hydroelectric Power	65
	Benefit Values of Hydroelectric Power	67
	Western Irrigation and Subsidies	68
	Irrigation Elsewhere	69
	Pollution and Groundwater Depletion from Irrigation	70
	Valuation of Irrigation Benefits	70
 Chapter 7	 Multiple-Purpose (Comprehensive) Planning System	 73
	Introduction	73
	The Objectives and Concept	75
	Potential Projects and Screening Alternatives	75
	Selection Process	76
	Computers and Modeling	76
	Present Situation	77
 Chapter 8	 Water Quality and Pollution Control	 79
	Introduction	79
	Nonpoint Sources	79
	Water Quality Criteria and Standards	81
	Conclusion	82

Chapter 9	Runoff Pollution Control/Stormwater Management .	85
	Introduction	85
	Control of Runoff Pollution	85
	When to Control	87
	Nonpoint-Source Pollutant Removal Methods	87
	Design of Dual-Purpose Detention Basins	89
	Regional Detention Basin Systems	92
	Federal Requirements	92
	State Programs	93
 Chapter 10	 Coordination Under Present Institutions	 97
	Introduction	97
	Basic Policies for Coordination	98
	Controversial Aspects	99
	Government Attempts at Coordination	99
	Cal-Fed Bay Delta Program	100
	The Alabama-Coosa-Tallapoosa and Apalachicola-Chattahoochee-Flint (ACT-ACF)	100
	Platte River	102
	Water Pollution Control	102
	Conclusion	102
 Chapter 11	 Coordination Through Fed-State Planning	 105
	Introduction	105
	Computers in Fed-State Studies	105
	The Fed-State Study	107
	Consequences If No Major Action Taken	109

Glossary 111

Index 117