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2021 Water and Wastewater Rate Survey

Is your utility's rate structure meeting your revenue goals? How does your rate structure compare with other utilities in your

geographic region? How do your rates compare with other similar-sized utilities? What are the current trends in utility rates? AWWA's 2021 Water and Wastewater Rate Survey will help your utility answer these critical questions and more. It provides the most comprehensive and up-to-date water and wastewater utility rate and financial data and analyses available. Data are provided for utilities providing water service and wastewater service from 42 states and the District of Columbia. The survey includes data from utilities that serve from 1,000 to 5 million customers, making this information relevant to utilities of all sizes. Survey data are shown in a series of easy-to-read tables, ideal for detailed analyses and comparisons. Data are organized by system size, so you can quickly isolate utilities that are similar to your own. This new edition also includes a thorough discussion on continuous improvement by measuring effectiveness and efficiency of service delivery in addition to the analysis of the data from the rate survey and the interactive spreadsheets. Data Presentation: Part I: Overview of the survey methodology Part II: Measuring to Success for water and wastewater utilities Part III: Highlights of the survey, including key findings and observations Part IV: Data summary exhibits arranged by system

size for comparison purposes This survey is a joint effort of American Water Works Association and Raftelis Financial Consultants, Inc.

Proceedings of the Annual Convention of the American Water Works Association

Standard Methods for the Examination of Water and Wastewater

"The signature undertaking of the Twenty-Second Edition was clarifying the QC practices necessary to perform the methods in this manual. Section in Part 1000 were rewritten, and detailed QC sections were added in Parts 2000 through 7000. These changes are a direct and necessary result of

the mandate to stay abreast of regulatory requirements and a policy intended to clarify the QC steps considered to be an integral part of each test method. Additional QC steps were added to almost half of the sections."--Pref. p. iv.

Water Transmission and Distribution

American Water Works Association

Water distribution systems are made up of pipe, valves and pumps through which treated water is moved from the treatment plant to homes, offices, industries, and other consumers. The types of materials and equipment used by each water system are usually governed by local conditions, past practices, and economics.

Consequently, drinking water professionals must be knowledgeable about common types of equipment and operating methods that are available. Completely revised and updated, Water transmission and distribution includes information on the following: distribution system design and operation and maintenance ; piping materials ; valves, pumps, and water meters ; water main installation ; backfilling, main testing, and installation safety ; fire hydrants ; water storage ; water services ; cross-connection control ; motors and engines ; instrumentation and control ; information management and public relations.--Cover

page [4].

Drought Preparedness and Response

M60 *American Water Works Association*

Providing a reliable supply of water requires being prepared for water shortages of varying degree and duration. What can a municipal water supplier do to mitigate water shortages caused by drought? Preparing for drought and water shortages before they occur is the best defense. This manual will help water managers facing water shortages by illustrating how to employ tried-and-true strategies and tactics of drought mitigation, as well as new tools and methods.

Managing water shortages involves temporarily reducing demand and finding alternate water to temporarily increase supply. There are options available to water managers to accomplish this. The manual provides a proven, seven-step process to anticipate and respond to water shortages through a structured planning process.

Plain Talk about Drinking Water

American Water Works Association

Activated Carbon

Solutions for Improving Water Quality

American Water Works Association

"Many books have been written about

granular activated carbon. Some focus on the theory of performance and removal mechanisms while others focus on design features. This book focuses on solutions. It describes the challenges facing water providers to provide safe water that is acceptable to their customers, utility experiences using activated carbon, activated carbon applications, and design and procurement approaches. The appendices include detailed case studies and a life-cycle assessment demonstrating favorable sustainability considerations for activated carbon when compared to other treatment technologies. Never

before has all of this information been together in one location. The what, why, and how of activated carbon are connected in this book and demonstrate why this treatment technology has maintained its status as an integral treatment technology in the quest for pure water over millennia"--

Instrumentation and Control, 3rd Ed. (M2)

American Water Works Association

This operations manual explains the basic principles of electrical power distribution, automation, and instrumentation in water distribution, treatment, and storage systems. Chapters cover hydraulic and electrical principles,

electric motor controls, measurement instruments and displays, pumps and valves, and automatic and digital controls.

Developing Rates for Small Systems

M54 *American Water Works Association*

The brand new manual provides step-by-step guidance to determine revenue requirements, analyze rates, develop a financial plan, and design a better rate structure -- even with limited resources and data. Written for small water systems (defined as serving a population of up to 10,000) it focuses on the unique attributes of small systems as related to financial planning and rate design, with the understanding that most data is contained

in the current customer billing system, and merely needs to be massaged. With details plus a sample case study, it helps develop a rate structure that emphasizes simplicity and ease of billing, while at the same time recognizes cost recovery and equitability. Also covered are communications with the public, which is integral to a successful rate restructuring, regulatory approval, system development funding, and rate phase-in.

Rehabilitation of Water Mains

American Water Works Association

P. 16.

AWWA Water Operator Field Guide

American Water Works

Association

Specially designed for in-the-field use, this comprehensive yet compact book will pay for itself over and over in the time you save looking for chemical and mathematic formulas, chemical feed rates, US/metric conversions, pipe and equipment data, operational parameters, construction and installation information, OSHA and USEPA regulations, and much more. More than 20 tables have been updated from the 2004 edition, to reflect information in current AWWA standards and manuals in this new edition. Many example calculations were converted to a more understandable format. Information has also been added on

drought, emergency disinfection, membranes, nitrification, fluoridation, external corrosion, backflow prevention, PE pipe, fire flow requirements, sizing service lines and meters, and water audits and loss control, and more. Included is a CD with the checklists which can be printed multiple times along with color photos of the related signage. (Replaces ISBN 9781583213155)

Water Treatment
American Water Works Association

This completely updated version discusses such topics as raw water quality, treatment options, treatment chemicals, and drinking water regulations. It includes detailed illustrations,

photographs, supplemental reading lists, a glossary, and an index.

The Ultraviolet Disinfection Handbook
American Water Works Association

Design and Construction of Small Water Systems

An AWWA Small Systems Resource Book
Amer Water Works Assn

This book provides a comprehensive overview of decisions related to designing, expanding and operating water systems that serve fewer than 3000 people or 1000 connections.

Water Conservation

Programs - A Desalination of Planning Manual Seawater

M52 *American Water Works Association*

This new manual discusses the benefits of water conservation programs that are carefully designed and implemented. It is a water conservation planning guide for city water utilities that provides worksheets, steps, goals, and program participant responsibilities and roles. It also discusses water conservation rates, support for water pricing adjustments, involvement of various outside groups, obstacles to overcome, the efficient utilization of available sources of supply, public recognition and participation, and success measurement.

M61 *American Water Works Association*

This manual provides technical and planning guidance for drinking water utilities that currently operate, are developing, or are considering desalination facilities.

Water Treatment Membrane Processes *American Water Works Association*

Best water filtration strategies for the '90s. Get the engineering savvy you need to capitalize on membrane technology for effective water filtration. Water Treatment Membrane Processes, by the American Water Works Association Research Foundation, enables

you to use membrane filtration methods for purifying drinking water--and utilize new research for wastewater treatment. This richly illustrated guide shows you how to apply membrane processes in numerous water treatment applications. . .model membrane performance. . .and take charge of field evaluation and piloting. You'll see how to implement nanofiltration, ultrafiltration, microfiltration, and electrodialysis techniques--and make the most of membrane reactors, bioreactors and ion exchange membrane reactors.

Algae

Source to Treatment
American Water Works

Association

This AWWA manual of practice provides water professionals with solutions to algae-related problems. Topics covered include identification of algal species, monitoring programs, and best management and treatment strategies.

Reverse Osmosis and Nanofiltration, (M46) *American Water Works Association*

Simplified Procedures for Water Examination

Internal Corrosion of Water Distribution Systems, 2 Edition
American Water Works Association

This comprehensive reference for engineers, consultants, and public administration officials

is recognized as the most complete, practical guide to water pipe corrosion, its health effects, and how to control it.

Forecasting Urban Water Demand
American Water Works Association

Water Treatment Plant Design
McGraw-Hill Professional Pub

The industry standard reference for water treatment plant design and modernization has been updated to include hot topics such as security and design, vulnerability assessments, and planning against vandalism and sabotage, as well as the latest information on codes, regulations, and water quality standards. * Latest code updates and new

water quality standards
* Design operation and analysis of treatment facilities

The Story of Drinking Water, Teacher's Guide, 4e
American Water Works Association

Designed for grades four through six, the Story of Drinking Water Teacher's Guide provides a complete curriculum on water. Following the Story of Drinking Water educational booklet, the Teacher's Guide provides 19 lessons covering all water topics, such as the hydrologic cycle, forms of water, water supply, water treatment, water distribution, conservation, and waterborne disease. All student activities can be done with little or no extra equipment.

Student activity sheets can be duplicated for individual use.

Let's Talk Safety 2005

Safety Talks *American Water Works Assn*

This annual publication provides 52 short weekly lectures on different subjects related to safety. It is designed to allow the utility supervisor to spend a few minutes each week to personally communicate with employees about safety on the job. (2004 edition 1-58321-298-1)

Water Quality & Treatment: A Handbook on Drinking Water *McGraw Hill Professional*

The definitive water

quality and treatment resource--fully revised and updated Comprehensive, current, and written by leading experts, *Water Quality & Treatment: A Handbook on Drinking Water*, Sixth Edition covers state-of-the-art technologies and methods for water treatment and quality control. Significant revisions and new material in this edition reflect the latest advances and critical topics in water supply and treatment. Presented by the American Water Works Association, this is the leading source of authoritative information on drinking water quality and treatment. NEW CHAPTERS ON: Chemical principles, source water composition, and

watershed protection
 Natural treatment
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 augmentation
 Ultraviolet light
 processes Formation
 and control of
 disinfection by-
 products DETAILED
 COVERAGE OF:
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 goals, and health
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 treatment reactors
 Gas-liquid processes
 and chemical oxidation
 Coagulation,
 flocculation,
 sedimentation, and
 flotation Granular
 media and membrane
 filtration Ion exchange
 and adsorption of
 inorganic contaminants
 Precipitation,
 coprecipitation, and
 precipitative softening
 Adsorption of organic
 compounds by

activated carbon
 Chemical disinfection
 Internal corrosion and
 deposition control
 Microbiological quality
 control in distribution
 systems Water
 treatment plant
 residuals management

Operational Control of Coagulation and Filtration Processes

*Amer Water Works
 Assn*

This AWWA manual of
 practice describes jar
 testing, particle
 counting, and other
 techniques and
 processes for
 monitoring, optimizing,
 and controlling water
 treatment.

Design-build for Water and Wastewater Projects

*American Water Works
 Association*

Written for water and
 wastewater utility

personnel, the collection of 30 articles provides a basic template of how DB projects can be planned, procured, and executed. Discussions include how the processes and procedures of design-build differ from those of design-bid-build, their impact on preliminary design and planning, procurement, and project execution.

Water Audits and Loss Control Programs

M36 *American Water Works Association*

In this handbook readers will find industry-approved procedures for water utilities to conduct systemwide water audits to assess real and apparent distribution-system

water losses, recover lost revenue, and detect and repair pipe leaks.

WSO Water Distribution, Grades 1 & 2

Basic Science Concepts and Applications

American Water Works Association

This completely updated version of the 1995 edition is an essential text that is referenced throughout the other volumes in the WSO Series. Readers will find practical discussions of mathematics, hydraulics, chemistry, and electricity as they relate to water topics and system operations.

Nonmechanical Dewatering of Water Plant Residuals

American Water Works Association

Principles of Water Rates, Fees, and Charges *American Water Works Association*

This new edition consolidates and updates information from four earlier rate manuals into one easy-to-use resource. Basic principles of water rates, fees, and charges are covered, along with specifics such as the determination of costs of water service by customer class, connection and service charges, wholesale rates, and more.

Water Chemicals Codex *National Academies Press*

The Drinking Water Dictionary

Definitions for every aspect of safe drinking water Developed under the aegis of the American Water Works Association -- and incorporating the wisdom of over 23 experts in their respective fields -- The Drinking Water Dictionary gives you a single-volume reference that's encyclopedia in its scope. At your fingertips you'll find definitions of abbreviations and acronyms...hydraulic formulas...mathematical models...Units of Measure (US customary and SI)...and Conversion Factor tables. This is the first place to look - and the only source you'll need - for definitions of more than 15,000 terms in all areas relating to drinking

water: *supply *
 microbiology *
 treatment *distribution
 *regulation
 *management *
 chemistry *health
 effects * and 34 other
 topics

M64 - Gas Transfer Applications in Water

Addition and Removal

"This manual is designed to provide operators and engineering staff with an understanding of aeration and air stripping systems, with a comprehensive look at different technologies and applications of gas addition and gas removal"--

Watershed Management for Drinking Water

Protection *Australian Water Assn*

This basic practice guide addresses watershed or catchments management from the perspective of drinking water quality protection on an international scope. Topics covered in this guide are based on the recommendation of delegates at the March, 2005 joint watershed management seminar/workshop was held in Honolulu, HI. This compilation of articles was prepared jointly by members of the Australian Water Association and the American Water Works Association to serve as a basic guide for the global water systems members.

Residential End Uses

of Water *American Water Works Association*

The American Water Works Association Research Foundation (AWWARF) and 22 municipalities, water utilities, water purveyors, water districts and water providers funded this study. Goals of this research included: Providing specific data on the end uses of water in residential settings across the continent; Assembling data on disaggregated indoor and outdoor uses; Identifying variations in water used for each fixture or appliance according to a variety of factors; and Developing predictive models forecast residential water demand. This report represents a

time and place snapshot of how water is used in single-family homes in twelve North American locations. Similarities and differences among 'end users' were tabulated for each location, analyzed and summarized. Great care was taken to create a statistically significant representative sample of customer for each of the twelve locations. However, these twelve locations are not statistically representative of all North American locations.

M1, Water Rates, Fees, and Charges

Recommended Practice for Backflow Prevention and Cross-connection Control