

**William W. Wade**  
**Water Resources Research**  
**1986-2006**

<u><i>Client</i></u>	<u><i>Project Title</i></u>
HRWA	"Evaluation of City of Franklin Water Supply Alternatives: hydrology, demand, financial feasibility and environmental values," ongoing
Law Case	"Evaluation of Contaminated Groundwater Residential Water supply," ongoing.
Conf	"Effect of \$billion Infrastructure Capital Investments on Indoor and Outdoor Price Elasticities and Long Run Demand Forecast," ongoing.
TNAWRA	"ARAP and the economics of Piney River Supply Planning," presentation to Water Resource Symposium, 2006.
BAWSCA	"Effect of increasing Hispanic population on California outdoor recreation preferences and facility needs," 2005.
BAWSCA	"Evaluation of Environmental Benefits of Hetch Hetchy Dam Removal," 3005.
<u>California Law and Water Policy</u>	
<u>Reporter</u>	"Achieving Sustainability and Reliability in Water Supply Planning," <u>California Water Law &amp; Policy Reporter</u> , October 2005.
Conf	"Estimation of Groundwater Values," ongoing.
BAWSCA	"Evaluation of Effect of SFPUC Water Supply Improvement Plan on San Francisco Bay Area Water Supply Reliability," ongoing.
Intervenor	"Evaluation of Piney River Supply Capacity to Meet Growing Water System Demand," 2005.
ARC	<u>Lake Lanier National Economic Development Update: Water Supply, Hydropower &amp; Recreation Benefits</u> , Final, 2004.
Nebraska	"Evaluation of Missouri River Master Control Plan," 2003.
Ecological Economics Conference	"Policy Evaluation of Natural Resource Injuries Using Habitat Equivalency Analysis," presented (by co-author Brian Roach) Saratoga Springs, NY, May, 2003.
TVA	"Economic Benefits for Reservoir Operations Alternatives within TVA service area," 2002-2003.
GAWRC	"Lake Lanier NED Update," April 2003.
Nebraska	"Economic Losses to Water Supply Cutbacks to Republican River Watershed Agriculture," December 2002; revised December 2003.
Nebraska	"Evaluation of Water Supply Allocations on Recreational Uses and Agricultural Production," 2001-2002.
TNAWRA	"IRP Approach to Water Supply Alternatives for Duck River Watershed," Water Resources Symposium, April 2002.
Nebraska	"Comparison of Irrigated Agricultural Economics Research Dealing with Crop Water Use," January 2002.

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Nebraska	"Critique of Agricultural Economic Crop Research Methods," 2001.
ATVG	"Value of Urban Water Supply Reliability," 2001.
ATVG	"TN Regulations Balance the Beneficial Uses of Water," 2001
DRA	"Evaluation of Water Supply Alternatives for Duck River Watershed," 2001.
Nebraska	"Effect of Water Supply Allocations on Value of State Agricultural Production," 2002-2003.
CB&W	"Estimating Potential Demand for Freshwater Recreation in the Sacramento-San Joaquin Rivers Delta, 2002.
Conf	"Economic Benefits of Recreational Boating on the Buffalo River," 2001.
ARC	"Recreation RED and NED Benefits for Lake Lanier water levels," 2001.
ARC	"Water Supply Reliability Values for Atlanta Metro Region," 2001.
Nebraska	"Effect on State Economy of Water Allocation Alternatives," 2001.
CB&W	"Estimated Recreation Visitation to CA Bay Delta," 2001.
TNAWRA	"Least Cost Water Supply Reliability Planning," Water Resources Symposium, April, 2001.
ARC	"Methods to Evaluate Cost of Metro Atlanta Water Shortages," 2000.
Conf	"M&I Water Supply Shortage Costs," 2000.
TNAWRA	"Water Supply Planning in the Duck River Watershed After the Fleecing," TN Water Resources Symposium, April 2000.
SCCWRRS	"Economic Evaluation of South Coast Regional Water Recycling Options," 2000.
BAWUA	"Review of Cost Allocation for New Facilities," 2000.
CUWA	"Review of Economic Impacts of Implementation of the Central Valley Project Improvement Act," 2000.
MWD	"Regional Urban Water Management Plan," 1999.
CUWA	"Review of CALFED Economic and Resource Modeling: Approaches and Results," 1999.
SDCWA	"Rate Design and Cost Allocation Study," 1999.
MWD	"Forecast of Freshwater Recreation Demand for Southern California Reservoirs," 1999.
MWD	"Planning, Forecasting and Financial Evaluation of Eastside Reservoir Recreation Complex," 1995 - 1999.
BARWRP	"Evaluation Decision Methodology for the Bay Area Water Recycling Program," 1999.

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San Jose	"Benefits Assessment and Development of Financing Proposals for the South Bay Water Recycling Project," 1999.
MWD	"Economic Effects of Bay-Delta Standards and Cost Allocation Alternatives," 1999.
CWS	"Sales Forecast for Water Rate Development," 1999.
ARC	"Economic Shortcomings ACF EIS M&I Water Supply, Recreation and Regional Impact Appendices," 1999.
MWD	"Evaluation of Effect of MTBE Limitations on Eastside Reservoir Recreation Financial Performance," 1999.
CFBF	"Review of Issues Related to PG&E Divestiture of Dams and Related Hydroelectric Facilities," 1999.
MWD	"Assist in Development of Water Surplus and Drought Management Plan," 1998
MWD	"Development of Tools to Evaluate Potential Water Resources," 1998.
SCVWD	"Development of Proposals for Regional Water Transfers, Banking and Recycling," 1998
SCVWD	"Consideration of Alternative Potential Roles in Water Recycling," 1998.
MWD	"Regional Economic Impacts of the Inland Feeder Project in the Inland Empire," 1997.
Conf.	"Review of Water Agencies' Conformity with Conservation Best Management Practices," 1997.
CUWCC	"Technical Review of Conservation Rate Handbook," 1997.
SDCWA	"Market Price/Indexing for Water Transfers," 1997.
MWD	"Cost Justification for Discount Rates for Water Supply to Agriculture," 1996.
MWD	"Effect of Recreation Trends on Financial Performance of Lake Skinner," 1996.
Chamber of Commerce	"Status of Efforts to Resolve California's Water Problems," 1995.
MWD	"Guidelines for Economic Considerations of Water Quality Standards Set for Inland Surface Waterways," 1995.
AWWA	"Technical Review of Reliability Planning Handbook," 1995.
MWD	"Agricultural Rate Issues: Factors Influencing MWD's Interruptible Agricultural Rates," 1995.
AWWA	"Economic Impact of Setting Bay/Delta Standards," 1995.
MWD	"Eastside Reservoir Recreation Planning and Forecasting with California Travel Cost Model: Financial Feasibility," 1995.
MWD	"White Papers on ratemaking and other incentives to promote economic levels on investment for local storage, conservation and reclamation," 1995.

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<i><u>Client</u></i>	<i><u>Project Title</u></i>
CUWA	"Review of Economic Aspects of Regulatory Impacts Assessment of the Proposed Water Quality Standards for the San Francisco Bay/Delta and Critical Habitat Requirements for the Delta Smelt," 1994.
Various	"Economic Aspects of Establishing Vernal Wetlands and Riparian Corridors for Wildlife and Water Supply Protection, " 1994.
MWD	"Review of Incentives for Conservation Programs, Sources of Finance, and Allocation of Benefits, " 1994.
CWA	"Water Supply Problems and Revenue Instability for Retail Water Utilities," Presentation to California Public Utility Commission, EN BANC, 1994.
MWD	"Review of Economic Aspects of Draft Regulatory Impacts Assessment of the Proposed Water Quality Standards for the San Francisco Bay/Delta and Critical Habitat Requirements for the Delta Smelt," 1994.
CWRA	"Economic Impacts of Proposed Federal Water Quality Standards to Urban Water Users," Presentation to CWRA Annual Conference, 1994.
CWA	"California Water Supplies in the 1990's: Add Fish and Feds and Shake Thoroughly – or, The Increasing Unreliability of Consumer Supplies in the Environmental Age," Presentation to Conference of California Public Utility Counsel, 1993.
Six Agen.	"Colorado River Critical Habitat Designation Studies: Environmental Benefits vs. Consumptive Losses," 1994.
Six Agen.	"Review of Regulatory Impact Analysis for Proposed Water Quality Standards on the Colorado River under the Clean Water Act," 1993.
MWD	"Effects of MWD Water Rate Increase on Agricultural Land-Uses," 1995.
LADWP	"Water Supply Planning Simulation and Estimated Shortage Costs," 1993. Testimony before SWRCB, 1993.
MWD	"Review of Cost Allocation Theory and Practice for Transmission Services," 1993.
SDCWA	"The Economic Effect on Earthquake-Related Water Supply Shortages on Certain Sectors of San Diego County," 1993.
MWD	"Conservation, Demand Hardening and Effects on Reliability Planning, " 1993.
ACE	"Current and Future Land Uses in the Delta," 1993.
MWD	"Water Use, Conservation and Planning in the Commercial, Service and Tourism Sectors of Southern California," 1993.
MWD	"The Effects of Water Supply Shortages on the Financial Performance of Retail Water Utilities," 1993.
CWA	"The Effect of Water Shortages on Private Utility Rates and Required Rates of Return," 1992; testimony before the CPUC, 1993.

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SCVWD	"Analysis of Economics and Cost Allocation of Water Reclamation Project," 1992.
CWA	"Water Supply Reliability Epochs: Revenue Instability for Retail Water Utilities," Presentation to CPUC, 1992.
MWD	"The Effects of Recession, Regulatory Constraints and Water Shortages on the Homebuilding Industry in Southern California," 1992.
BAEF	"Water Marketing in California: Resolving Third-Party Issues," 1992.
MWD	"Proposed Reliability Standard for Metropolitan Water District of Southern California," 1992.
DOI	"Tribal Lifestyles, Traditional Values and Water Requirements for the Hopi and Navajo in the Arizona High Desert," 1993.
MWD	"Impact of Drought on California's Green Industry," SWC <u>Exhibit 20</u> , 1992.
MWD	"The Economic Cost of Drought-Induced Urban Greenery Losses, " SWC <u>Exhibit 21</u> , 1992.
ACE	"Benefits of Flood Plain Protection," 1992 - 1993.
MWD	"Economic Impacts of Listing Delta Smelt as Endangered Species," 1992.
CUWA	<u>Evaluating Urban Water Conservation Programs: A Procedures Manual.</u> (Subcontractor to PMCL), February 1992.
CMA	"Economic Impacts of Regulatory Trends in California," (with Charlton Research) 1991.
CUWA	<u>Cost of Industrial Water Shortages</u> , 1991.
MWD	"The Cost of Droughts: Santa Barbara Case Study," 1991.
CUWA	"Review of Reliability Planning Programs of Electric Utilities," 1991.
MWD	"Planning for Reliability for Urban Water Agencies," 1991.
SFWD	"General Considerations for Water Supply Disruptions," February 1991.
MWD	"Impact of Drought on California Agriculture," 1991.
MWD	"Economic Impacts of Catastrophic Outage of the California Aqueduct at Arroyo Pajejero," 1990.
MWD	"Financial Partnerships to Assure Conservation's Role in California Water Supply Planning," Testimony to CPUC 1989.
MWD	"Supply Reliability Planning for Water Utilities," 1989.
MWD	"Economic Value of Reliable Water Supplies for Industrial Water Users," SWC <u>Exhibit 57</u> , 1987.
MWD	"Economic Value of Reliable Water Supplies for Residential Users," SWC <u>Exhibit 54</u> , 1987.

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LADWP	"Continuing Review, Critique and Rebuttal to Mono Lake Benefit Estimates and Jones & Stokes/John Loomis Study Plan," 1988 - 1994.
MWD	"Review and Critique of Bay Institute Values of Salmon, Seals and Wetlands of San Francisco Bay and Sacramento Delta," 1987.
MWD	"Recreation Benefit Estimates for Eastside Reservoir," 1991.
DWR/USBR	"Recreation Forecasts and Benefit Estimates for California Reservoirs: Recalibrating the California Travel Cost Model," 1991.
DWR/USBR	"Potential Recreation Demand Forecast by County - 1990 to 2035," 1990.
DWR	"Recreation Forecasts and Benefit Values for Los Banos Grandes," 1990.
DWR	"Recreation Forecasts and Benefits Values for Little Rock Reservoir," 1990.
USBR	"Estimating Instream Flow and Reservoir Water Level Incremental Benefits with California Travel Cost Model," <u>Appendix E to DEIR CVP Water Contracting Programs</u> , 1988.
ACE	"Recreation Values of Corps of Engineers Reservoirs," 1988.
MWD	"Economic Evaluation of the Recreation Resources of the SWP Reservoirs and Sacramento-San Joaquin Delta," <u>SWC Exhibit 65 &amp; 66</u> , 1987.

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JAWRA	"Economic Benefits of Municipal and Industrial Water Supply Reliability for Metropolitan Atlanta," draft for publication, 2003
ARC	"RED and NED Benefit Estimates for Lake Lanier," 2001; final 2004.
CB&W	"Estimated Recreation Visitation to Bay Delta," 2001.
Conf	"Economic Benefits of Recreational Boating on the Buffalo River," 2001.
MMS	"Offshore Environmental Cost Model," 2000.
Conf.	"Habitat Restoration Equivalence Compared to Costs for Coastal Ecosystem," 1995.
Various	"Economic Aspects of Establishing Vernal Wetlands and Riparian Corridors for Wildlife and Water Supply Protection," 1994.
Conf.	"Groundwater Clean-up Opportunity Costs and Cost Allocation," 1994.
Conf.	"Natural Resource Damages Related to Contamination of Municipal Groundwater Aquifer," 1994.
NOAA	"Approach to Pacific Northwest Native American Natural Resource Values," 1993 - 1994.
Six Agencies	"Colorado River Critical Habitat Studies: Environmental Benefits v. Consumptive Losses," 1994.
DOI	"Groundwater Resource Values for Southwestern Native American Water Rights," 1993.
LADWP	"Critique of Mono Lake Contingent Valuation Survey," 1991 - 1993.
CADOG	"The Status of California Petroleum Production Industry: The Cost of Regulatory Compliance," 1993.
CMA	"Economic Impacts of Regulatory Trends in California," 1992
Conf.	"An Approach To Incorporate Missing User and Nonuser Values In EIR For Regional Park Impacted By BART Route," 1992.
MWD/USBR	"Recreation Forecasts and Benefit Estimates for California Reservoirs: Recalibrating the California Travel Cost Travel," 1991.
Foster	"Redirecting the Environmental Agenda to Incorporate Risk," 1991.
Conf.	"Application of Non-Use Values to an Old Growth Redwood Forest," February, 1991.
MWD/USBR	"Potential Freshwater Recreation Demand Forecast by California County - 1990 to 2035," 1991.
Conf.	"Comments on NOAA Natural Resource Damage Assessment Plan for ...," 1990.
USBR/ACE	"Recreation Benefits for California Reservoirs: A Multisite Facilities-Augmented Gravity Travel Cost Model," 1989.

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USBR	"Estimating Instream Flow Recreation Benefits on the American and Sacramento Rivers," 1988.
MWD	"Trends in Fresh Water Recreation Demand in Southern California," 1988.
MWD	"Critique of Contingent Valuation Studies Related to Bay Delta State Water Contractors Exhibit 90," 1987.
MWD	"Economic Evaluation of the Recreation Resources of California's State Water Project and the Sacramento-San Joaquin Delta," and 1987.
MWD	"Methods to Value Benefits to Natural Resources Associated with Bay-Delta Water Diversions," February, 1987.
NSP	"Review and Critique of Contingent Valuation Estimated Benefits Related to Reduced Acid Rain on Minnesota Lakes," 1986.