

## TABLE OF CONTENTS

Director’s Statement .....	iv
Water Conference Advisory Committee.....	v
Conference Program .....	vi
Photo Contest .....	ix
First Water Conference Participants .....	x
21 <sup>st</sup> Century Agriculture in a 21 <sup>st</sup> Century Urban World Lowell B. Catlett, New Mexico State University .....	1
Albert E. Utton Memorial Water Lecture Prior Appropriation Law and Future Water Allocation: Preserving Water for Future Generations Charles DuMars, Law and Resource Planning Associates, P.C. ....	9
The Bureau of Reclamation: The Last 103 Years and the Next 47 William E. Rinne, Bureau of Reclamation .....	21
Back to the Future: Regional Differences in New Mexico Water Rights G. Emlen Hall, University of New Mexico School of Law .....	27
Historical Review of Water: Water Challenges Past and Present Joe Stell, New Mexico Representative .....	33
Ralph Stucky Proclamation.....	38
Homage to Ralph Stucky, First WRRI Director John Hernandez, New Mexico State University Bobby Creel, Water Resources Research Institute .....	39
Long Term Demographic Uncertainty and Water Demand in New Mexico Jim Peach, New Mexico State University.....	43
Urban Water Pricing: A Historical Perspective and the Challenges for the Future Janie M. Chermak, University of New Mexico .....	49
Institutional Barriers to Water Conservation in the Rio Grande Basin: Challenges and Opportunities Frank A. Ward, New Mexico State University.....	57
Economic Development and Land Use: How Do We Continue to Grow while Living within Our “Water Means”? .....	71
Moderated by Bill Hume, Office of the Governor	

Janet Jarratt, Middle Rio Grande Conservancy District farmer	
Tom Phillips, Bureau of Land Management	
James Rivera, Pueblo of Pojoaque	
David Steinborn, Real Estate Developer, Las Cruces	
Karyn Stockdale, The Trust for Public Lands	
John Stomp, City of Albuquerque	
The Two Q's: The Connection between Water Quality and Water Quantity	
Ron Curry, New Mexico Environment Department .....	97
Creating Effective Source Water Protection through Regional Collaboration	
Matt Holmes, New Mexico Rural Water Association .....	103
New Mexico's Experience with Interstate Water Agreements	
John Whipple and Estevan López, New Mexico Interstate Stream Commission.....	109
Active Water Resource Management	
John D'Antonio, Office of the State Engineer.....	125
Active Water Resource Management in the Lower Rio Grande: Adapting to Basin-Specific Requirements	
Phil King, New Mexico State University .....	131
Adjudications: Getting to "Finished"	
Judge Jerald A. Valentine, Third Judicial District Court.....	135
Indian Water Rights Settlements – Bringing Certainty to Uncertain Water Resources	
Stanley Pollack, Navajo Nation .....	141
Structuring Voluntary Dry Year Transfers	
Bonnie Colby, University of Arizona .....	149
Western Water Markets and Price Diversity	
Ari M. Michelsen, Texas A&M and Tom Brown, U.S. Forest Service.....	155
Regional Trends in the Use and Reuse of Impaired Waters	
Mike Hightower and Rich Kottenstette, Sandia National Laboratories and	
Larry Webb, City of Rio Rancho.....	167
El Paso's Municipal Reclaimed Water Program	
David O. Ornelas, El Paso Water Utilities.....	173
Environmental and Ecological Issues: History and Future of ESA, NEPA, and the Clean Water Act	
Sterling Grogan, Middle Rio Grande Conservancy District.....	177
Participant List .....	183