Proceedings

40th Annual New Mexico Water Conference

Reaching the Limits: Stretching the Resources of the Lower Rio Grande



October 26-27, 1995 Las Cruces Hilton

New Mexico Water Resources Research Institute
New Mexico State University ■ Box 30001, Dept. 3167
Las Cruces, New Mexico 88003-8001

Reaching the Limits: Stretching the Resources of the Lower Rio Grande

Proceedings of the 40th Annual New Mexico Water Conference

October 26-27, 1995 Las Cruces, New Mexico

New Mexico Water Resources Research Institute

Tom Bahr, Director
Bobby Creel, Assistant Director
Catherine T. Ortega Klett, Conference Coordinator, Proceedings Editor
Cynthia Griswold Rex, Conference/Proceedings Editorial Assistant
Darlene Reeves, Projects Coordinator
Ellie Maese Duran, Administrative Secretary
Michael Smelker, Student Assistant

Funds for the proceedings publication were provided by registration fees, the U.S. Department of the Interior, and state appropriations to the New Mexico Water Resources Research Institute. Contents of this publication do not necessarily reflect the views and policies of the New Mexico Water Resources Research Institute, nor does mention of trade names or commercial projects constitute their endorsement or recommendation for use.

TABLE OF CONTENTS

Director's Statement
Dr. H. Ralph Stucky Honored
Professor Al Utton Receives Award viii
Past Water Conference Participant Listx
Water Conservation Poster Contest
Messages from Senators Bingaman and Domenici and Representative Skeen xiv
Conference Program xix
40th Annual New Mexico Water Conference Keynote Address Governor Gary Johnson
The Developers: Controlling the Lower Rio Grande 1890-1980 Linda G. Harris
Water Development in the Lower Rio Grande: The Elephant Butte Irrigation District Gary Esslinger
The Mesilla Valley: A Century of Water Resources Investigations Francis West
Population Projects for Doña Ana, El Paso and Hudspeth Counties and Ciudad Juárez Jim Peach
United States-Mexico Border Geographic Information System Robert J. Czerniak and David Garber
Local Water Planning Issues Ken Needham, Brent Westmoreland and Owen Lockwood
General Geology and Groundwater Occurrence of the El Paso Area Tom Cliett and John W. Hawley
Modeling Ground and Surface Water Interactions Tom Maddock
New Mexico/Texas Water Commission: Working Together to Share the Resources Tom Bahr and Ed Archuleta
Federal Initiatives Along the Border Marvin Waters

Recovering the Rio Grande Silvery Minnow Jeff Whitney	°Q 1
	01
Bringing Back the River: A Vision for the Rio Grande's Future	
Kevin Bixby	87
Planning for New Mexico's Water Future	
Thomas C. Turney	93
Regional Water Issues for the Lower Rio Grande: Water Managers Panel	
Risher Smith Gilbert, Garry Rowe, Jack Hammond, Tom Brown, Ed Archuleta, Ken Needham,	
Gary Esslinger, Edd Fifer, Thomas C. Turney and Cruz Ito	99
Regional Water Issues for the Lower Rio Grande: Elected Water Policy Makers Panel	
Chuck DuMars, Woodrow Gary, John Haltom, G. X. McSherry, Ken Miyagishima and	
William (Bill) Porter	. 113
New Mexico Water Conference Advisory Committee	. 121
Water Conference Participants	123
	. 122



