

# Table of Contents

Conference Program .....	6
Tom Bahr Receives Founder's Award of Excellence .....	8
Welcoming Remarks - Mayor Rubén A. Smith .....	9
Keynote Address: Transfer of Reclamation Project Water from Historic Irrigation to New M&I Uses - Bureau of Reclamation Commissioner Eluid Martinez .....	11
The Rio Grande Compact: Law of the River - Chuck DuMars, Thomas C. Turney, Hal D. Simpson and Jack Hammond .....	14
Regional Water Planning Update - Richard Cheney and Mary Helen Follingstad .....	22
The Evolution of the Rio Grande - Neal W. Ackerly .....	26
New Mexico/Texas Water Commission: Update on Commission Activities - Ed Archuleta .....	33
Luncheon Addresses	
U.S. Congressman Joseph Skeen .....	35
Lieutenant Governor Walter D. Bradley .....	37
Basin Guidelines and Hydrographic Survey of the Lower Rio Grande - Calvin Chavez and Max Chavez .....	41
Groundwater Modeling in the Lower Rio Grande - W. Peter Balleau .....	46
U.S. Geological Survey Seepage Investigations of the Lower Rio Grande in the Mesilla Valley - Edward Nickerson .....	59
The Removal of Arsenic Compounds from Natural Water Sources - Robert Wingo .....	69
Effects of Fire on the Spatial and Temporal Distribution of Mercury in Sediments of an Arid-Lands Reservoir in South-central New Mexico - Colleen A. Caldwell .....	78
Aquifer Sensitivity Assessment for the Mesilla Valley - John F. Kennedy .....	84
Concentration of Viral Particles from Water by Ultrafiltration - Kevin H. Oshima .....	105
An Assay for Toxic Chemicals Using Microorganisms - James Botsford .....	111
National Water Resources Association Update - Wayne Cunningham .....	112
New Mexico First's Recommendations and the State Engineer-ISC Legislative Agenda for 1999 - John Shomaker .....	115
Water Quality on the Lower Rio Grande - James Davis, Rodger Ferreira and Mark Jordan .....	117
Conversion of Water from Agriculture to Municipal Use: How to do it - John Utton, Edmund G. Archuleta, Gary Arnold and Len Stokes .....	132
New Mexico Water Conference Advisory Committee .....	142
Water Conference Participant List .....	143
Speaker Biographies .....	152