



High Plains Groundwater Resources: Challenges and Opportunities

DECEMBER 7, 2004

--- Tentative Agenda ---

1:00 PM – 1:45 PM	<p>WELCOME</p> <p>Engineering the Future Water Supply</p> <p>Agricultural Water Issues</p> <p>State Water Issues</p> <p>Interdisciplinary Solutions For Complex Challenges</p>	<p>DR. TED ZOBECK, Agricultural Research Service, program chairman; SWCS Golden Spread Chapter Past President</p> <p>DR. PAMELA EIBECK, Dean, TTU College of Engineering</p> <p>DR. MARVIN J. CEPICA, Dean, TTU College of Agricultural Sciences and Natural Resources</p> <p>ROBERT DUNCAN, State Representative <i>(invited)</i></p> <p>DR. KEN RAINWATER, Director, Water Resources Center</p>
1:45 PM – 2:30 PM	<p>What is the Value of Water?</p> <p>Reaching Beyond the Dilemma of Cost and Price</p>	<p>DR. RONALD LINSKY, Executive Director, National Water Research Institute</p>
2:30 – 3:00 PM	<i>BREAK & EXHIBIT VIEWING</i>	
3:00 PM – 3:30 PM	Geology of the Ogallala Aquifer	DR. JUDY REEVES , Hydrogeologist, HPUWCD
3:30 PM – 4:00 PM	Development of South Plains Ogallala Aquifer	JIM CONKWRIGHT , Manager, HPUWCD
4:00 PM – 5:00 PM	Roles of Underground Water Conservation Districts – Present and Future Perspectives	C.E. WILLIAMS , Manager, Panhandle Groundwater Conservation District
5:00 PM – 6:00 PM	<i>RECEPTION & EXHIBIT VIEWING</i>	
6:00 PM	<p>BANQUET</p> <p>Sufficient Water for Texas Agriculture</p>	SUSAN COMBS , Texas Agriculture Commissioner

General Session
Concurrent with Technical Sessions for December 8, 2004

8:00 AM – 8:45 AM	Rule of Capture Issues - Gary McLaren Richards, Elder, Srader, Phillips, and McLaren, LLP	BILLY HOWE , Associate Legislative Director, Texas Farm Bureau
8:45 AM – 9:05 AM	Regional Water Planning	BILL MULLICAN , Deputy Executive Administrator, Water Development Board
9:05 AM – 9:25 AM	Planning of CRMWA for Municipal Water Needs	KENT SATTERWHITE , Manager, Canadian River Municipal Water Authority
9:25 AM – 9:45 AM	Conservation for Urban Water Users	CHES CARTHEL , Chief Engineer, City of Lubbock
9:45 AM – 10:15 AM	<i>BREAK & EXHIBIT VIEWING</i>	
10:15 AM - 12:00 PM	Agricultural Water Users Perspectives Panel Discussion	TO BE ANNOUNCED

Concurrent Sessions for December 8, 2004

8:00 AM – 9:45 AM	Session 1.1.A – Alternative Cropping Integrating Cattle Grazing into a Dryland Wheat Sorghum Fallow Rotation Response of Dryland Grain Sorghum to Planting Geometry Productivity, Cost, and Risk Characteristics of Complementary Dryland Forage Systems for Cow-Calf Production in the Texas Panhandle	Baumhardt, et al. Stewart, et al. Lust, et al.
9:45 AM – 10:15 AM	<i>BREAK & EXHIBIT VIEWING</i>	
10:15 AM - 12:00 PM	Session 1.2.A Hydrogeology/Hydrology Spatial Distribution of Playa Lakes on the Texas High Plains Infiltration Along a Playa Basin-Outer Basin Transect Under the Ogallala: Dockum Group Aquifer(s) Beneath the Southern High Plains of Texas and New Mexico	Quillin, et al. Jackson, et al. Reeves, et al.
12:00 PM – 1:30 PM	<i>LUNCH</i>	

Concurrent Sessions for December 8, 2004 – Contd

<p>1:30 PM – 3:15 PM</p>	<p>Session 1.3.A – Education Outreach</p> <p>Critical Water Related Curriculum Needs as Perceived by Agricultural Science Teachers in Programs Located within the Boundaries of the Ogallala Aquifer</p> <p>Identifying Factors Associated with the Teaching of Water Issues in Secondary Agricultural Science Programs</p> <p>Attitudinal Variability Among Southern High Plains Cotton Producers Toward Integrated Crop/Livestock Systems</p> <p>Information Sources and Channels Used by Farmers and Ranchers When Making Water Management Decisions within the Southern High Plains</p> <p>Session 1.3.B – Ag-Eco Issues</p> <p>The Impacts of the Ogallala Aquifer Characteristics on Water Use and Conservation: The Case of Hale County</p> <p>A Coupled Hydrologic-Economic Modeling Tool to Support Groundwater Management Decisions</p> <p>Kansas Irrigation Trends and Economic Impacts</p> <p>Evaluation of Water Policy Alternatives for Groundwater in the Southern High Plains of Texas</p> <p>Session 1.3.C – Groundwater Quality</p> <p>Effects of Irrigated Agriculture on Recently Recharged Groundwater Quality, Southern High Plains Aquifer, Texas</p> <p>White Cancer: Soil Salinization in the Southern High Plains</p> <p>Atrazine and Metolachlor Groundwater Monitoring in the Texas Panhandle</p> <p>From the Water Sample to the Big Picture-A Multi-Scale Water Quality Investigation of the High Plains Aquifer</p>	<p>Cox, et al.</p> <p>Cox, et al.</p> <p>Jones, et al.</p> <p>Doefert, et al.</p> <p>Wheeler, et al.</p> <p>Bernard, et al.</p> <p>Rogers, et al.</p> <p>Johnson, et al.</p> <p>Fahlquist, et al.</p> <p>Wood, et al.</p> <p>Cherepon, et al.</p> <p>Bruce, et al.</p>
<p>3:15 PM – 3:45 PM</p>	<p><i>BREAK & EXHIBIT VIEWING</i></p>	
<p>3:45 PM - 5:30 PM</p>	<p>Session 1.4.A Modeling Applications</p> <p>Variably Saturated Multiphase Modeling to Support Risk Assessment Efforts at Pantex</p> <p>Well Owners Guide to Regional Groundwater Availability Models</p> <p>Regional Groundwater Availability Modeling of the Southern Ogallala Aquifer of West Texas and Eastern New Mexico</p> <p>Mustang Station Application</p>	<p>Stovall, et al.</p> <p>Coleman, et al.</p> <p>Blandford, et al.</p> <p>Harkins, et al.</p>

Concurrent Sessions for December 8, 2004 – Cont'd

<p>3:45 PM – 5:30 PM</p>	<p>Session 1.4.B – Plant Irrigation/Water Use</p> <p>Sorghum/Cotton Rotation Under Extreme Deficit Irrigation Conditions</p> <p>Water and Nitrogen Use Efficiency of Grain Sorghum</p> <p>Irrigation Methods and Capabilities for Cotton in the Northern High Plains</p> <p>Evaluation of Peanut Varieties for Drought and Heat Tolerance</p> <p>Session 1.4.C – Legal Issues</p> <p>Lessons in Regulation of Water Rights</p> <p>Groundwater Rights Issues in Texas</p> <p>Groundwater Conservation Districts Present and Future Role</p> <p>Groundwater Management in Kansas</p>	<p>Bordovsky, et al.</p> <p>Thomason, et al.</p> <p>Colaizzi, et al.</p> <p>Wallace, et al.</p> <p>McEnery, et al.</p> <p>Eckstein, et al.</p> <p>Conkwright, et al.</p> <p>Steward, et al.</p>
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Concurrent Sessions for December 9, 2004

<p>8.00 AM – 9:45 AM</p>	<p>Session 2.1.A – Ag-Eco Issues</p> <p>Optimizing Grain Sorghum Profitability and Water Use Efficiency in the Texas Panhandle</p> <p>Crop Water Allocation Model for Limited Irrigation</p> <p>Managing for Groundwater Conservation: Economic Exhaustion versus Physical Exhaustion</p> <p>Session 2.1.B – Plant Irrigation/Water Use</p> <p>Subsurface Drip Irrigation of Turfgrass</p> <p>Within-Season Estimation of Evapotranspiration and Soil Moisture in the High Plains Using Yield Tracker</p> <p>An Update and Status of the ARS-University Ogallala Aquifer Initiative</p> <p>Water Use for Irrigated Agriculture and Methodology for Water Demand Projections: A Comparison among Selected States</p> <p>Session 2.1.C – Groundwater Remediation</p> <p>Groundwater Remediation of Hydrocarbon Contaminants in the Ogallala Aquifer on the High Plains of Texas</p> <p>Advanced Injection Based In Situ Remediation of High Plains Groundwater</p>	<p>Almas, et al.</p> <p>Klocke, et al.</p> <p>Willis, et al.</p> <p>Maurer, et al.</p> <p>Maas, et al.</p> <p>Clark, et al.</p> <p>Almas, et al.</p> <p>Spear, et al.</p> <p>Vance, et al.</p>
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Concurrent Sessions for December 9, 2004, Contd.

8:00 AM – 9:45 AM	<p>Session 2.1.C – Groundwater Remediation contd.</p> <p>Status of Groundwater Investigation and Remediation at the Pantex Plant</p> <p>Case Study of Integrated Approach to the Clean Up of Ogallala Groundwater Impacted by Oilfield Brine, Haskell County, Kansas</p>	<p>Biggs, et al.</p> <p>Jacobs, et al.</p>
9:45 AM – 10:15 AM	<p><i>BREAK and EXHIBIT VIEWING</i></p>	
10:15 AM – 12:00 PM	<p>Session 2.2.A – Hydrogeology/Hydrology</p> <p>Sustainability for the Ogallala</p> <p>Impact of Land Use on Groundwater Recharge in the Southern High Plains, Texas</p> <p>Ogallala Initiative Groundwater GIS Application</p> <p>HPUWCD GIS Support</p> <p>Session 2.2.B – Municipal Water Supply</p> <p>Conservation of Water Supplies by Wastewater Reuse: City of Abilene Case Study</p> <p>Using Enhanced Coagulation and UF Technology in Water Treatment to Effectively Treat Blended Water Supplies</p> <p>Lubbock Groundwater Issues</p> <p>CRMWA Groundwater Issues</p> <p>Session 2.2.C – Plant Irrigation/Water Use</p> <p>Efficiency of High Plains Lawn Irrigation Methods</p> <p>Evaluating Landscape Plants Exposed to Water Conserving Irrigation Regimes in Lubbock, Texas</p> <p>Minimizing Residual Soil Nitrate in High Plains Cotton Fields</p> <p>Prospects for Enhancing Aquifer Recharge and Protecting Groundwater Quality in a Playa Forage Production System</p>	<p>Everheart, et al.</p> <p>Reedy, et al.</p> <p>Mulligan, et al.</p> <p>Barbato, et al.</p> <p>Waters, et al.</p> <p>Hibbs, et al.</p> <p>Carthel, et al.</p> <p>Pernell, et al.</p> <p>Hall, et al.</p> <p>Montague, et al.</p> <p>Bronson, et al.</p> <p>Gitz, et al.</p>
Day 2 and 3	<p>Posters</p> <p>Precipitation Maps: Can They Support a Regional Soil Water Balance?</p> <p>Yield Benefit from Soil Water at Emergence and In-Season Precipitation</p> <p>Water Use and Yield of Alternative Non-Irrigated Cropping Systems in Western Kansas</p> <p>Value of Groundwater in Agricultural Production in the Texas Panhandle</p>	<p>Aiken, et al.</p> <p>Stone, et al.</p> <p>Schiegel, et al.</p> <p>Sanders, et al.</p>

