2005-2006 RGBI PUBLICATIONS LIST

EXTENSION

Task 1 Extension

Barroso, M., & Leigh, E. (2005, May). *Map of Engleman Irrigation District* (detailing farm lots, roads, pump locations, labeling, and map formatting). Texas Water Resources Institute, Irrigation Technology Center.

Barroso, M., & Leigh, E. (2005, June). *Map of Progresso Irrigation District* (detailing farm lots, roads, pump locations, labeling, and map formatting). Texas Water Resources Institute, Irrigation Technology Center.

Barroso, M., & Leigh, E. (2005, July). *Detailed map of Los Fresnos Irrigation District* (detailing farm lots, roads, pump locations, labeling, and map formatting). Texas Water Resources Institute, Irrigation Technology Center.

Bawazir, B., Samani, Z., Bleiweiss, M., & Skaggs, R. (2005, April). *Measuring Evapotranspiration in Agricultural and Riparian Vegetation*. Poster presented at the 4th Annual Rio Grande Basin Initiatives Conference, Alpine, TX.

Enciso, J., Wiedenfeld, B., Fipps, G. (2005, March). *Irrigation of Sugarcane in Texas* (B-6156). Texas Cooperative Extension.

Fipps, G. (2005, May). *Potential Water Savings in Irrigated Agriculture for the Rio Grande Planning Region (Region M)*, 2005 Update. Final Report submitted to NRS Engineering, Inc. for the Region M Water Planning Group, 37 pp, 34 tables, 4 maps, 11 charts.

Henry, M., Fipps, G., & Leigh, E. (2005, March). *Relationships between Seepage Loss Rates and Canal Condition Parameters for the Rapid Assessment Tool (RAT)*. Paper published in the proceedings and presented at the Third International Conference on Irrigation and Drainage (USCID). San Diego, CA.

Huang, Y., Turan, B., & Fipps, G. (2005, October). Canal operation automated in Lower Rio Grande Valley, Texas. *RESOURCE*, American Society of Agricultural Engineers (ASAE), 12 (8): 8-9

Karimov, A., & Leigh, E. (March 2006). *Map of Bayview Irrigation District* (detailing farm lots, roads, pump locations, labeling, and map formatting). Texas Water Resources Institute, Irrigation Technology Center.

- Lacewell, R.D., Sturdivant, A.W., Michelsen, A.M., Rister, M.E., & Sheng, Z. (2005, July). Estimated Benefits from Restoration of IBWC Rio Grande Flood-Control Projects. Proceedings of 'River and Lake Restoration: Changing Landscapes,' University Council on Water Resources Annual Meeting. Portland, ME.
- Leigh, E., & Fipps, G. (2005, April). *Use of Geographical Information Systems (GIS) in Defining Municipal Water Supply Networks*. Paper published in the proceedings and presented at the Third International Conference on Irrigation and Drainage. San Diego, CA.
- Leigh, E., & Fipps, G. (2006, February). *Ponding Test Results, Seepage and Total Losses, Lateral A, Hidalgo County Irrigation District No. 2.* Texas Water Resources Institute, Irrigation Technology Center.
- Leigh, E., & Fipps, G. (2006, February). *Pipeline Seepage Loss Test Results, Northeast Main Pipeline, United Irrigation District*. Texas Water Resources Institute, Irrigation Technology Center.
- Leigh, E., Fipps, G., Huang, Y., & Karimov, A. (2006, February). *Seepage Loss Measurement and Testing Manual*. Texas Water Resources Institute, Irrigation Technology Center.
- Nazarov, A., Huang, Y., Karimov, A., Fipps, G., & Leigh, E. (2006, March). *Canal Automation Equipment, Design and Management Guideline*. Texas Water Resources Institute, Irrigation Technology Center.
- Leigh, E., Fipps, G., Flahive, D., & Karimov, A. (2005, November). *No. 3, A NEW IDEA, Newsletter of the Irrigation District Engineering and Assistance Program.* Texas Water Resources Institute, Irrigation Technology Center.
- Nazarov, A., Karimov, A., & Fipps, G. (2005, March). *Zarafshan Water District Improvement Project in Uzbekistan*. Paper published in the proceedings and presented at the Third International Conference on Irrigation and Drainage (USCID). San Diego, CA.
- Samani, Z., Magallanez, H., & Skaggs, R. (2005, April). *A Simple Flow Measuring Device for Farms*. Water Task Force Report #3, New Mexico State University.
- Samani, Z., & Skaggs, R.K. (2005, April). *Irrigation Practices vs. Farm Size: Data from the Elephant Butte Irrigation District.* Water Task Force Report #4, New Mexico State University.
- Samani, Z., Bleiweiss, M., Nolin, S., & Skaggs, R. (2005, March). Regional ET Estimation from Satellites. In *Water District Management and Governance*, Proceedings of the Third International Conference on Irrigation and Drainage, United States Committee on Irrigation and Drainage, pp. 613-619. ISBN 1-887903-18-6.
- Samani, Z., Bleiweiss, M., Skaggs, R., & Sanderson, R. (2005, March). Calculating Pecan Water Use by Remote Sensing. In *39th Annual Western Pecan Conference Proceedings*. NMSU Cooperative Extension Service and the Western Pecan Growers, pp. 51-57.

- Samani, Z., & Skaggs, R. (2005, March). *Calculating Pecan Water Use by Remote Sensing*. A presentation to the 38th Annual Western Pecan Growers Association Conference, Las Cruces, NM.
- Samani, Z., Bleiweiss, M., Skaggs, R., & Sanderson, R. (2005, April). *Regional ET Estimation from Satellites*. Poster presented at the European Geosciences Union General Assembly 2005, Vienna, Austria.
- Sheng, Z. Sturdivant, A.W, Michelsen, A.M., & Lacewell, R.D. (2005, December). Rapid Economic Assessment of Flood-Control Failure Along the Rio Grande: A Case Study. *International Journal of Water Resources Development*. Special Issue Vol No. 21, Issue 4.
- Skaggs, R., & Samani, Z. (2005, April). *Comparing Crop Evapotranspiration and Irrigation Practices in New Mexico's Elephant Butte Irrigation District*. Poster presented at the 4th Annual Rio Grande Basin Initiatives Conference, Alpine, TX.
- Skaggs, R., & Samani, Z. (2005, March). Farm Size, Irrigation Practices, and On-Farm Irrigation Efficiency in New Mexico's Elephant Butte Irrigation District. In *Water District Management and Governance*, Proceedings of the Third International Conference on Irrigation and Drainage, United States Committee on Irrigation and Drainage, pp. 489-498. ISBN 1-887903-18-6.
- Skaggs, R., & Samani, Z. (2005, April). Farm Size, Irrigation Practices, and On-Farm Irrigation Efficiency in New Mexico's Elephant Butte Irrigation District. A presentation to the Third International Conference on Irrigation and Drainage: Water District Management and Governance, United States Committee on Irrigation and Drainage, San Diego, CA.
- Sturdivant, A.W., Rister, M.E., & Lacewell, R.D. (2006, January). *Alternative Approaches for Determining the Value of Water*. Workshop for the Water Rights Task Force of the Lower Rio Grande Valley. Weslaco, TX. Invited.
- Sturdivant, A.W., Rister, M.E., & Lacewell, R.D. (2006, January). *The Value of Water, the Costs of Delivery, the Interaction of Rates, and Their Relevance to LRGV*. Members of the Lower Rio Grande Valley Water District Manager's Association and Representatives from Various Municipal Water Suppliers. Weslaco, TX. Invited.
- Sturdivant, A.W., Rister, M.E., Lacewell, R.D., & Ribera, L.A. (2005, December). *The Value of Water, the Interaction of Rates, and Their Relevance to LRGVWDMA II.* Workshop for the Lower Rio Grande Valley Water District Manager's Association. Weslaco, TX. Invited.
- Sturdivant, A.W., Rister, M.E., & Lacewell, R.D. (2005, December). *Validating the Estimated Cost of Saving Water Through Infrastructure Rehabilitation in the Texas Lower Rio Grande Valley A Case Study Using Actual Construction Costs for the Wisconsin Pipeline Project, Hidalgo County Irrigation District No. 2 (San Juan)*. Texas Water Resources Institute. SR 2005-03. College Station, TX.

Sturdivant, A.W. (2005, December). *Costs of Delivering Water in the Lower Rio Grande Valley – Survey Results for the LRGVWDMA*. Monthly meeting of the Lower Rio Grande Valley Water District Manager's Association. Edinburg, TX. Invited.

Sturdivant, A.W., Rister, M.E., Lacewell, R.D., & Ribera, L.A. (2005, November). *The Value of Water, the Interaction of Rates, and Their Relevance to LRGVWDMA*. Workshop for the Lower Rio Grande Valley Water District Manager's Association. Weslaco, TX. Invited.

Turan, B., Fipps, G., Leigh, E., & Nazarov, A. (2005, October). *Demonstration of Gate Control with SCADA Systems in Lower Rio Grande Valley of Texas*. Published in the Proceedings of the 2005 USCID Water Management Conference on SCADA and Related Technologies for Irrigation District Modernization. Vancouver, WA.

Task 3 Extension

Fipps, G., & Leigh, E. (2005, October). Development of the Irrigation Conveyance Evaluation Program. *Proceedings of the Australian National Committee on Irrigation and Drainage Annual Conference* 2005, Mildura, Victoria, Australia. Published by the Australian National Committee on Irrigation and Drainage.

Wolfe, C.D., Stubbs, M.J., Rister, M.E., Sturdivant, A.W., & Lacewell, R.D. (2006, February). An Overview of the Operational Characteristics of Selected Irrigation Districts in the Texas Lower Rio Grande Valley: Delta Lake Irrigation District. Texas Water Resources Institute. TR-290. College Station, TX.

Wolfe, C.D., Stubbs, M.J., Rister, M.E., Sturdivant, A.W., & Lacewell, R.D. (2006, January). *An Overview of the Operational Characteristics of Selected Irrigation Districts in the Texas Lower Rio Grande Valley: Harlingen Irrigation District Cameron County No. 1.* Texas Water Resources Institute. TR-270. College Station, TX.

Task 4 Extension

Assadian N.W., Di Giovanni, G.D., Enciso, J., Iglesias, J., & Lindemann, W. (2005). The Transport of Waterborne Solutes and Bacteriophage in Soil Subirrigated with a Wastewater Blend. *Agriculture, Ecosystems & Environment* Volume 111, Issues 1-4, Pages 279-291.

Enciso J.M., Colaizzi, P.D., & Multer, W.L. (2005). Economic Analysis of Subsurface Drip Irrigation Lateral Spacing and Installation Depth for Cotton. *Transactions of the American Society of Agricultural Engineers* 48(1):197-204.

Enciso, J.M., & Wiedenfeld, B. (2005, July). Irrigation Guidelines Based on Historical Weather Data in the Lower Rio Grande Valley of Texas. *Agricultural Water Management*, Volume 76, Issue 1, Pages 1-7.

Enciso, J. & Porter, D. (2005). *Basics of Microirrigation* (TCE Publication B-6160). Texas Cooperative Extension. 16 pages.

- Enciso J., Jifon, J., & Wiedenfeld, B. (2005, July). Subsurface Drip Irrigation of Onions: Effects of Emitter Spacing and Drip Depth on Yield. Presented at the 2005 American Society of Agricultural Engineers (ASAE) Annual International Meeting, ASAE Paper 05-2242. Tampa, FL.
- Fernald, A., Guldan, S., & Ochoa, C. (2005, August). *Plumbing the links between irrigation seepage, shallow groundwater, and river flow*. Alcalde Field Day, Alcalde, NM.
- Fernald, A.G. (2005, July). *The Role of Traditional Acequia Irrigation Systems in Maintaining Floodplain Hydrologic Functions*. River and Lake Restoration: Changing Landscapes; The University Council on Water Resources Annual Conference. Portland, ME.
- Fernald, A., & Guldan, S. (2005, April). *Hydrologic budget impacts of seepage losses from flood irrigation*. Irrigation Efficiency Project Task 4 Water Quality Technical Group. Rio Grande Basin Initiative Annual Conference. Alpine, TX.
- Fernald, A.G. (2005, April). *Hydrological and Ecological Functions of Irrigated Floodplain Agriculture*. New Mexico Agriculture Keys to Survival: A Conference for Key Leaders, Farmers, and Ranchers, Socorro, NM.
- Fernald, A.G. (2005, March). *El Rio Grande en New Mexico y las interacciones entre agues superficiales y agues subterraneas*. El Bicentenario de Ciencia y Tecnologia: Uso y Tratamiento del Agua, Chillan, Chile.
- Fernald, A.G. (2005, January). *Watershed hydrology*. NMSU All Extension Conference, Las Cruces, NM.
- Gerik, T.J., Piccinni, G., Steglich, E.M., Stichler, C., Williams, J., Enciso, J., Stapper, J., Perez, E., Byrom, E., Harman, W., Francis, L., & Greiner, J. (2005, November). Using crop simulation and crop evapotranspiration for irrigation management in South Texas. *Proceedings of the 2005 American Society of Agronomy-Crop Science Society of America-Soil Science Society of America International Annual Meetings*, Salt Lake City, UT.
- Harman, W., Gerik, T., Magre, M., & Steglich, E. (2005, May). *Irrigation yield response of crops in the Lower Rio Grande Valley of Texas*. Blackland Research & Extension Center Report No. 2005-5.
- Nelson, S.D., Uckoo, R., Enciso, J., & Shantidas, K.J. (2005, November). *On-Farm Water Conservation Strategies on South Texas Citrus Production*. American Society of Agronomy-Crop Science Society of America-Soil Science Society of America International Annual Meetings. Salt Lake City, UT.
- Ochoa, C., Fernald, A., & Guldan, S. (2005, August). *Movement of flood irrigation seepage into soil and shallow groundwater*. Advances in Hydrology: Methods and Instruments; New Mexico Water Resource Research Institute Technical Symposium. Socorro, NM.

Uckoo, R., Nelson, S.D., & Enciso, J. (2005, November). *Management Strategies for Irrigation Use Efficiency in Grapefruit Production*. TAMUS Pathways to the Doctorate Symposium. Kingsville, TX.

Wiedenfeld, B., Enciso, J., & Jifon, J. (2005, November). *Irrigation and Nitrogen Application Effects on Sugarcane Production in the Lower Rio Grande Valley of Texas*. American Society of Agronomy-Crop Science Society of America-Soil Science Society of America International Annual Meetings. Salt Lake City, UT.

Task 5 Extension

Leinauer, B. (2005, April). Wetting agent study IV: New Mexico. *Golf Course Management*. Vol. 73, No. 4, p. 62-64.

Leinauer, B. (2005, January). *Installation of Subsurface Drip Irrigation Systems in Turf*. Workshop Landscape, Vegetable Garden and Olla Drip Irrigation, 2005 All Extension Conference, Las Cruces Hilton.

Leinauer, B. (2005, January). *Subsurface Irrigation for the Golf Course*. 43rd Annual Nebraska Turfgrass Conference and Trade Show. Nebraska Turfgrass Association. Omaha, NE.

Leinauer, B. (2005, January). *Subsurface Irrigation for Sports Turf*. 43rd Annual Nebraska Turfgrass Conference and Trade Show. Nebraska Turfgrass Association. Omaha, NE.

Leinauer, B. (2005, April). Effect of Irrigation Type and Root Zone Material on Irrigation Efficiency and Turfgrass Quality in the Southwest. Joint Rio Grande Basin Initiatives Annual Conference. Sul Ross State University, Alpine, TX.

Leinauer, B. (2005, July). *Turfgrass Research and Extension Program at New Mexico State University*. NMSU Academic Field Day, Leyendecker and Fabian Garcia Plant Science Research Centers, Las Cruces, NM.

Lesikar, B., Melton, R., Smith, D., & O'Neill, C. (2005, October). *On-Site Wastewater Treatment Systems: Graywater* (TCE Fact Sheet B-6176). Texas Cooperative Extension.

Silvy, V., Kaiser, R., & Lesikar, B. (2005). *Views from the River Front, Rio Grande Decision Makers Rank Water Conservation Strategies* (TCE Publication B-6180). Texas Cooperative Extension.

Silvy, V., Kaiser, R., & Lesikar, B. (2005, February). *Preference and Feasibility of Urban Water Conservation Strategies in the Rio Grande Basin*. Paper presented at Rainwater Harvesting Conference, Edinburg, TX.

Silvy, V., Kaiser, R., Lesikar, B., & Runyan, C. (2005, September). *Views from the River Front, Rio Grande Decision Makers Rank Water Conservation Strategies*. Poster presented at the Managing Landscapes and Watersheds for Water Resources Summit in Santa Fe, NM.

Silvy, V., Kaiser, R., & Lesikar, B. (2006, February). *Rio Grande Decision Makers Rank Barriers to Water Conservation Strategies*. Paper presented at USDA-Cooperative State Research, Education and Extension Service National Water Conference, San Antonio, TX.

Silvy, V., Kaiser, R., & Lesikar, B. (forthcoming 2006, April). *Rio Grande Decision Makers Rank Barriers to Water Conservation Strategies*. Paper to be presented at Texas Water 2006, American Water Works Association, Austin, TX.

Storz, B., Silvy, V., & Lesikar, B. (2005, February). *Rainwater Harvesting Conference:* Capturing Nature's Best for Your Landscape. Texas Cooperative Extension, Edinburg, TX.

Task 6 Extension

Dozier, M., Melton, R., Hare, M., Porter, D., & Lesikar, B. (2005, October). *Drinking Water Problems: Perchlorate* (TCE Publication L-5468). Texas Cooperative Extension.

Dozier, M., & McFarland, M. (2005, May). *Shock Chlorination of Stored Water Supplies* (TCE Publication E-351). Texas Cooperative Extension.

Dozier, M., & McFarland, M. (2005, May). *Tratando agua almacenada con cloro* (TCE Publication E-351S). Texas Cooperative Extension.

Fernald, A.G. (2005, January). *Watershed hydrology*. NMSU All Extension Conference. Las Cruces, NM.

Fernald, A.G. (2005, March). *El Rio Grande en New Mexico y las interacciones entre agues superficiales y agues subterraneas*. El Bicentenario de Ciencia y Tecnologia: Uso y Tratamiento del Agua. Chillan, Chile.

Fernald, A., & Guldan, S. (2005, April). *Irrigation Ditch Seepage Effects on Surface Water/Groundwater Interaction Along the Rio Grande River Corridor*. Irrigation Efficiency Project Task 6 On-Farm Technical Group, Rio Grande Basin Initiative Annual Conference, Alpine, TX.

Fernald, A.G. (2005, April). *Hydrological and Ecological Functions of Irrigated Floodplain Agriculture*. New Mexico Agriculture Keys to Survival: A Conference for Key Leaders, Farmers, and Ranchers, Socorro, NM.

Fernald, A.G. (2005, July). *The Role of Traditional Acequia Irrigation Systems in Maintaining Floodplain Hydrologic Functions*. River and Lake Restoration: Changing Landscapes; The University Council on Water Resources Annual Conference, Portland, ME.

Fernald, A., Guldan, S., & Ochoa, C. (2005, August). *Plumbing the links between irrigation seepage, shallow groundwater, and river flow.* Alcalde Field Day. Alcalde, NM.

Fernald, A., & Guldan, S. (2005, November). *Multiple Values of Acequia-Irrigated Agriculture*. Keys to Keeping New Mexico Agriculture Growing Conference, Albuquerque, NM.

Fiore, C., & Schroeder, J. (2005). The Potential for Germination and Establishment of Select Weed Seed on Irrigation Canals in Southern New Mexico. *Proceedings of the Western Society of Weed Science* 58:27.

Hart, C. (2005, January). *Saltcedar control and water salvage on the Pecos River*. Farm Bureau Leadership Conference, Austin, TX.

Hart, C. (2005, February). *Precision aerial application on saltcedar*. Society for Range Management Annual Meeting, Fort Worth, TX.

Hart, C. (2005, March). *Chemical control of saltcedar*. Saltcedar Biological Control Consortium Meeting, El Paso, TX.

Hart, C. (2005, August). *Current activities in the Pecos River Basin*. Pecos Basin 319 Project Meeting, Fort Stockton, TX.

Hart, C., & McMurry, M. (2005, November). *Pecos River Ecosystem Project*. Texas Invasive Species Conference, Austin, TX.

Hart, C. (2005, November). *Current activities in the Pecos River Basin*. Society for Petroleum Engineers Environmental Study Group, Midland, TX.

Helmus, A., Fernald, A., Guldan, S., Ochoa, C., & VanLeeuwen, D. (2006, February). Water quality effects of interactions between surface water and groundwater along the Rio Grande in northern New Mexico. *In: Proceedings of the Society for Range Management 59th Annual Meeting*, Vancouver, BC.

Hernandez, J., Barrick, B., & Ulery, A. (2005, July). *Salinity tolerance of weeds common to irrigation canals in the Mesilla Valley, NM*. Poster was presented at the ASSURED program, New Mexico State University, Las Cruces, NM.

Lesikar, B., Melton, R., Hare, M., Hopkins, J., & Dozier, M. (2005, December). *Drinking Water Problems: Arsenic* (TCE Publications L-5467). Texas Cooperative Extension.

Mecke, M., & Supercinski, D. (2006, January). Harvesting the Rain. *Ranch & Rural Living Magazine*.

Mecke, M. (2005, March). *Water Issues across Texas and the Need for Water Conservation*. Keynote speaker at Calhoun County Annual Water Conservation Banquet.

Mecke, M. (2005, April). Rangeland Water Matters to Everyone. *Rangelands (Society for Range Management)*, p 7-9.

Mecke, M. (2005, May). Many Advantages Seen Through Saving Rainwater. *Fort Stockton Pioneer*. (Newspaper)

Mecke, M. (2005, May). Prosperity and Economic Growth Do Not Have to be at Odds with Conservation. *Fort Stockton Pioneer*.

Mecke, M. (2005, May). Rainwater Can Be Harvested for Use at Home. Desert Mountain Times.

Mecke, M. (2005, May-June). Is the Drought Over? Texas Section of *Range Management Newsletter*.

Mecke, M. (2005, June). We Have Had Rain: Is the Drought Over? *Ranch & Rural Living Magazine*.

Mecke, M. (2005, June). *The Importance of Water Quality to Rural Residents*. Presentation at Terrell County Meeting, Sanderson, TX.

Mecke, M. (2005, July). A Couple of Wet Years may not Signal End of Drought in Texas. High Plains Underground Water Conservation District Newsletter.

Mecke, M. (2005, August). Garden Club joins with Extension Office for Scheduled Programs. *Fort Stockton Pioneer*.

Mecke, M. (2005, August). *Water Resources of Pecos County, Texas*. Presentation at Fort Stockton Garden Club monthly meeting.

Mecke, M. (2005, August). Is the Drought Over? Local Expert Says Not Yet. *Fort Stockton Pioneer*.

Mecke, M. (2005, August). Water in Pecos County – What About It? Fort Stockton Pioneer.

Mecke, M. (2005, August). Garden Club Tours 16 Desert Landscaping Sites. *Fort Stockton Pioneer*.

Mecke, M. (2005, September). Water Facts Presented to Garden Club. Fort Stockton Pioneer.

Mecke, M. (2005, October). Water Resources of the Trans-Pecos Region of Texas. Speaker at the Annual Texas Native Plant Society Conference, Alpine, TX.

Mecke, M. (2005, October-November). *Rangeland Watersheds*. Presentations at Rangeland Watershed Monitoring Workshops in Fredericksburg, Odessa and Sonora.

Mecke, M. (2005, December). Rainwater harvesting offers many conservation benefits. The Cross Section, High Plains Underground Water District newsletter, Lubbock, TX.

Mecke, M. (2005, December). What is a Watershed and What is Water Pollution. Presentation to 10 classes of school children, Fort Stockton, TX.

Nagihara, S., & Hart, C. (October, 2005). Use of Satellite Remote Sensing in Monitoring Saltcedar Control Along the Lower Pecos River, USA. Submitted to the *River Research and Applications Journal*.

Wilcox, B., Dugas, W., Owens, M.K., Ueckert, D., & Hart, C. (2005). *Shrub Control and Water Yield on Texas Rangelands: Current State of Knowledge*. Texas Agricultural Experiment Station Research Report 05-1.

Task 7 Extension

Garza, O., Lesikar, B., Persyn, R., Kenimer, A., & Anderson, M. (2005). Food service wastewater characteristics as influenced by management practices and primary cuisine type. Transactions of the American Society of Agricultural Engineers, 48(4): 1389-1394.

Leinauer, B. (2005, April). *Non-potable saline groundwater for turfgrass irrigation?* Joint Rio Grande Basin Initiatives Annual Conference, Sul Ross State University, Alpine, TX.

Lesikar, B., Garza, O., Persyn, R., Anderson, M., & Kenimer, A. (2006, February). Food Service Establishments Wastewater Characterization. *Water Environment Research*, 78(2): (In press).

Lesikar, B., Richter, A., Weaver, R., & O'Neill, C. (2005, January). On-Site Wastewater Treatment Systems: Liquid chlorination (TCE Publication L-5460). Texas Cooperative Extension.

Lesikar, B., Weaver, R., Richter, A., & O'Neill, C. (2005, January). On-Site Wastewater Treatment Systems: Constructed wetland media (TCE Publication L-5459). Texas Cooperative Extension.

Lesikar, B. (2005, April). On-Site Wastewater Treatment Systems: Selecting and Permitting (Revision of TCE Publication B-6077 (English) and B-6077s (Spanish)). Texas Cooperative Extension.

Lesikar, B., O'Neill, C., Deal, N., Loomis, G., Gustafson, D., & Lindbo, D. (2005, July). On-Site Wastewater Treatment Systems: Homeowner's Guide to Evaluating Service Contracts (TCE Publication B-6171). Texas Cooperative Extension.

Lesikar, B., Hallmark, C. Melton, R., & Harris, B. (2005, August). On-Site Wastewater Treatment Systems: Soil Particle Analysis Procedure (TCE Publication B-6175). Texas Cooperative Extension.

Lesikar, B. (2005). Hydraulic and Organic Loading Rates Affect Drainfield Operation. *TOWA Insider*, Texas Onsite Wastewater Association Newsletter, 12(2): 9.

Lesikar, B. (2005). Aerobic Treatment Unit System Sizing in Texas. *TOWA Insider*, Texas Onsite Wastewater Association, 12(2): 11-12.

Lesikar, B. (2005, April). OWTS 101: Basics of Onsite Wastewater Treatment Systems (Publication Number SP-212). Texas Cooperative Extension.

Lesikar, B. (2005, April). OWTS 201: Overview of Advanced Onsite Wastewater Treatment Systems (Publication Number SP-213). Texas Cooperative Extension.

Lesikar, B. (2005, April). OWTS 320: Drip Distribution Systems for Dispersal of Effluents (Publication Number SP-214). Texas Cooperative Extension.

St. Hilaire, R., Bsoul, E., & Bowen-O'Connor, C. (2005, June). Ecophysiology and micropropagation of bigtooth maples. *Proceedings of the Metropolitan Tree Improvement Alliance Symposium: Increasing Tree Diversity for Sustainable Urban Forests*, Lisle, Illinois. http://www.ces.ncsu.edu/fletcher/programs/nursery/metria/metria13/hilaire/index.html, accessed Mar. 8, 2005.

St. Hilaire, R., Bsoul, E., & Bowen-O'Connor, C. (2005, June). Ecophysiology and micropropagation of bigtooth maples. New Mexico Water Conservation Alliance, Turf and Tree Tour, Conservation Current, Winter 2005, page 3.

RESEARCH

Task 1 Research

Aristizabal, L., Sheng, Z., Villalobos, J., & Xiang, G. (2005, August). Understanding the hydrogeological characteristics of El Paso lower valley, through groundwater modeling. New Mexico Water Research Symposium, E-23.

Bawazir, B., Samani, Z., Bleiweiss, M., & Skaggs, R. (2005, July). *Measuring Evapotranspiration in Agricultural and Riparian Vegetation*. Poster presented at the 3rd Annual Academic and Research Field Day, Leyendecker and Fabian Garcia Plant Science Research Centers, Las Cruces, NM.

Lacewell, R.D., Rister, M.E., & Sturdivant, A.W. (2005, September). Validating the Estimated Cost of Saving Water Through Infrastructure Rehabilitation in the Texas Lower Rio Grande Valley – A Case Study Using Actual Construction Costs for the Curry Main Pipeline Project, Hidalgo County Irrigation District No. 1 (Edinburg). Texas Water Resources Institute. SR 2005-01. College Station, TX.

Lacewell, R.D., Rister, M.E., & Sturdivant, A.W. (2005, September). Validating the Estimated Cost of Saving Water Through Infrastructure Rehabilitation in the Texas Lower Rio Grande Valley – A Case Study Using Actual Construction Costs for the Lateral A Lining Project, Hidalgo County Irrigation District No. 2 (San Juan). Texas Water Resources Institute. SR 2005-02. College Station, TX.

Lacewell, R.D., A.W. Sturdivant, A.M. Michelsen, M.E. Rister, & Sheng, Z. (2005, July). *Estimated Benefits from Restoration of IBWC Rio Grande Flood-Control Projects*. Proceedings of 'River and Lake Restoration: Changing Landscapes,' University Council on Water Resources Annual Meeting. Portland, ME. (Abstract).

Rister, M.E., Lacewell, R.D., & Sturdivant, A.W. (2005, September). *Economic and Conservation Evaluation of Capital Renovation Projects: United Irrigation District of Hidalgo County (United) – Rehabilitation of Main Canal, Laterals, and Diversion Pump Station – Preliminary.* Texas Water Resources Institute. TR-286. College Station, TX.

Rister, M.E., Lacewell, R.D., & Sturdivant, A.W. (2006, March). *Economic and Conservation Evaluation of Capital Renovation Projects: United Irrigation District of Hidalgo County (United) – Rehabilitation of Main Canal, Laterals, and Diversion Pump Station – Final.* Texas Water Resources Institute. TR-288. College Station, TX.

Samani, Z., Nolin, S., Bleiweiss, M., & Skaggs, R. (2005). Discussion of 'Predicting Daily Net Radiation Using Minimum Climatological Data' by S. Irmak, A. Irmak, J.W. Jones, T.A. Howell, J.M. Jacobs, R.G. Allen, and G. Hoogenboom. *ASCE Journal of Irrigation and Drainage Engineering*, Vol. 129, No. 4, July-August 2005:388-389.

- Samani, Z., Sammis, T., Skaggs, R., Alkhatiri, N., & Deras, J. (2005). Measuring On-Farm Irrigation Efficiency with Chloride Tracing under Deficit Irrigation. *American Society of Civil Engineers (ASCE) Journal of Irrigation and Drainage Engineering*, Vol. 131, No. 6, November-December 2005:555-559.
- Sheng, Z. & Devere, J. (2005). Systematic management for a stressed transboundary aquifer: the Hueco Bolson in the Paso del Norte region. *Journal of Hydrogeology*, Vol. 13, No. 5-6: pp. 813-825.
- Sheng, Z. (2005). An aquifer storage and recovery system with reclaimed wastewater to preserve native groundwater resources in El Paso, Texas. *Journal of Environmental Management*, 75/4, pp. 367-377.
- Sheng, Z., Hincapie, J., Villalobos, J., & others. (2005, November). *Supplementing surface water shortage with groundwater in El Paso, Texas*. Presented at American Water Resources Association Annual Conference, Seattle, WA.
- Sheng, Z. (2005, June). *Challenges Faced by Aquifer Storage and Recovery System for the Reclaimed Wastewater in El Paso, Texas*. Invited presentation at the Aquifer Storage and Recovery Workshop of American Water Work Association 2005 Annual Conference, San Francisco, CA.
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Wiedenfeld, B. (2005, June). Conservation tillage effects in a subtropical environment on crop production, soil properties and water use. Southern Branch American Society of Agronomy. San Antonio, TX.

Wiedenfeld, B., & Enciso, J. (2005, June). *Irrigation and nitrogen application effects on sugarcane production in the Lower Rio Grande Valley of Texas*. American Society of Sugarcane Technology, Panama City Beach, FL.

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Task 5 Research

Bowen-O'Connor, C., Hubstenberger, J., Van Leeuwen, D., & St. Hilaire, R. (2005). *In vitro micropropagation of bigtooth maple*. Abstracts P-3026 of the In Vitro Biology Meeting, Baltimore, MD, page 11.

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Cabrera, R. (2005, February). *Mineral nutrition and fertilization of urban trees and shrubs*. Presentation at the 2005 North Central Texas Urban Forestry Workshop, Grand Prairie, TX.

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Cabrera, R. (2005, June). *Texas A&M crape myrtle research 1975-2005*. Paper presented at the Crape Myrtle National Conference, McKinney, TX.

Cabrera, R. (2005, July). *Irrigation water quality and nursery/landscape plant production and management*. Presentation at the Texas Nursery & Landscape Association: Texas Master Certified Nursery Professional Workshop, Dallas, TX.

Cabrera, R. (2005, August). *Improving water and nutrient efficiency in landscape plants*. Presentation at the Texas Nursery & Landscape Association Nursery/Landscape Pre-Expo Education Conference, Dallas, TX.

Cabrera, R. (2005, August). *El cultivo del rosal de invernadero para flor cortada*. Short Course presented at Diplomado Internacional en Horticultura Protegida, Texcoco, México.

Cabrera, R. (2005, November). Evaluando la sensibilidad y tolerancia a salinidad en rosas de invernadero. Paper presented at Seminario Internacional de Fertirriego, Universidad Nacional de Colombia, Bogotá.

Cabrera, R. (2005, November). Consideraciones sobre la nutrición mineral y fertilización en rosas. Paper presented at Seminario Internacional de Fertirriego, Bogotá.

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Leinauer, B. (2005, January). *Subsurface Irrigation for the Golf Course*. 43rd Annual Nebraska Turfgrass Conference and Trade Show. Nebraska Turfgrass Association. Omaha, NE.

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Leinauer, B. (2005, March). *New Technologies for Effective Irrigation*. Fairway Congress and Trade Show. Munich, Germany.

Leinauer, B. (2005, April). Water Repellency in Sprinkler- and Subirrigated Turfgrass Root Zones. Meeting of the General Assembly of the European Geosciences Union, Vienna, Austria.

Leinauer, B. (2005, April). Effect of Irrigation Type and Root Zone Material on Irrigation Efficiency and Turfgrass Quality in the Southwest. Joint Rio Grande Basin Initiatives Annual Conference. Sul Ross State University, Alpine, TX.

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Niu, G. (2005, November). *Drought and salt tolerance of landscape plants*. [Seminar]. Department of Horticulture, Texas A&M University.

Picchioni, G.A., Mackay, W.A., & Valenzuela-Vazquez, M. (2005). Correlative Supply and Demand Functions in *Lupinus havardii*: A Forgotten Side of Cut Flower Physiology? Journal of American Society for Horticultural Science. (In Press).

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Moore, G., & Owens, M. K. (2005, August). Will removing Tamarix from the Bosque understory result in water savings for the Rio Grande? Ecological Society of America, Montreal, Canada.

Owens, M.K., Moore, G.W., & Ayala, R. (2005, December). *Precipitation pulses in a saltcedar community: are they important?* (H53E-0527). American Geophysical Union, San Francisco, CA.

Paroz, Y.M. (2005). Population attributes and landscape scale habitat associations of Rio Grande cutthroat trout (Oncorhynchus clarki virginalis). Master's Thesis, New Mexico State University.

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Brown, W., & Assadian, N. (2005, November) *Developing Strategies to Extract Salts and Water from Concentrate for Beneficial Use*. American Society of Agronomy – Crop Science Society of America – Soil Science Society of America International Annual Meeting, Salt Lake City, UT. (Poster Presentation).

Leinauer, B. (2005, April). *Non-Potable Saline Groundwater for Turfgrass Irrigation?* Joint Rio Grande Basin Initiatives Annual Conference. Sul Ross State University, Alpine, TX.

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Task 8 Research

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Sheng, Z., Villalobos, J., & Michelsen, A. (2005, July). *Integrated GIS method for estimation of riparian coverage along the Lower Rio Grande*. Presented at the Annual Conference of the Universities Council on Water Resources, Portland, Maine [CD-ROM].

Sheng, Z., & Villalobos, J. (2005, July). *Evaluation of potential flood areas using GIS*. The 2005 Environmental Systems Research Institute (ESRI) International User Conference, San Diego, CA.

Sheng, Z., Michelsen, A., Villalobos, J., et. al. (2005, August). *Coordinated database and GIS for the Paso del Norte watershed management*. Presented at the New Mexico Water Research Symposium, C-30.

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