

2010-2011
RGBI PUBLICATIONS LIST

EXTENSION

Task 1 Extension

Bonaiti, G., Leigh, E., Karimov, A., & Fipps, G. (2011, September). Flow calibration of the Bryan Canal Radial Gate at United Irrigation District. *Proceedings of the 2010 USCID Conference, "Meeting Irrigation Demands in a Water-Challenged Environment: SCADA and Technology – Tools to Improve Production."* Fort Collins, CO: U.S. Committee on Irrigation and Drainage (USCID).

Boyer, C. N., Rister, M. E., Rogers, C. S., Sturdivant, A. W., Lacewell, R. D., Browning, C., Ellum, J. R., III, & Seawright, E. K. (2010, July). *Economies of size in municipal water treatment technologies: A Texas Lower Rio Grande Valley case study* (TWRI Report No. TR-367). College Station: Texas Water Resources Institute, Texas A&M System.

Karimov, A., Leigh, E., Bonaiti, G., & Fipps, G. (2010, May). *SCADA projects in irrigation districts*. Poster presented at the Joint Rio Grande Basin Initiatives Annual Conference, Alpine, TX.

Karimov, A., Leigh, E., & Fipps, G. (2010, June). *District telemetry and automation: Costs and capabilities*. Presentation to the Maverick County Water Control and Improvement District No. 1, Eagle Pass, TX.

Karimov, A., Leigh, E., & Fipps, G. (2010, June). *District telemetry and automation: Costs and capabilities*. Presentation to the Bayview Irrigation District No. 11, Bayview, TX.

Karimov, A., Leigh, E., & Fipps, G. (2010, June). *District telemetry and automation: Costs and capabilities*. Presentation to the Santa Cruz Irrigation District No. 15, Edinburg, TX.

Karimov, A., Leigh, E., & Fipps, G. (2010, June). *District telemetry and automation: Costs and capabilities*. Presentation to the Engelman Irrigation District No. 15, Elsa, TX.

Karimov, A., Leigh, E., & Fipps, G. (2010, June). *District telemetry and automation: Costs and capabilities*. Presentation to the Hidalgo County Water Improvement District No. 5, Progreso, TX.

Karimov, A., Leigh, E., & Fipps, G. (2010, September). Initiating SCADA projects in irrigation districts. *Proceedings of the 2010 USCID Conference, "Meeting Irrigation Demands in a Water-Challenged Environment: SCADA and Technology – Tools to Improve Production."* Fort Collins, CO: U.S. Committee on Irrigation and Drainage (USCID).

Lacewell, R. D., Leidner, A. J., Rister, M. E., & Sturdivant, A. W. (2010, July). *Water market institutions in the Texas Lower Rio Grande Basin*. Presentation at the 2010 Universities Council on Water Resources and the National Institutes for Water Resources Annual Meeting, Seattle, WA.

Leidner*, A. J., Boyer*, C. N., Rogers*, C. S., Sturdivant, A. W., Rister, M. E., & Lacewell, R. D. [*1st author, Abstract]. (2009, February). Analysis of economies of size in potable water-treatment technologies in South Texas. *Proceedings of the 2009 USDA-CSREES National Water Conference*. Washington, DC: USDA Cooperative State Research, Education, and Extension Service.

Leidner, A. J., Rister, M. E., Lacewell, R. D., Stubbs, M. J., & Sturdivant, A. W. (2010, March). *Water trade and diversion activity in the Texas Lower Rio Grande Basin*. Presentation at the Intellectbase International Consortium Academic Conference, Houston, TX.

Leidner, A. J., Rister, M. E., Lacewell, R. D., & Sturdivant, A. W. (2010, July). Water market institutions in the Texas Lower Rio Grande Basin [Abstract]. *Proceedings of the 2010 Universities Council on Water Resources and the National Institutes for Water Resources Annual Meeting*. Carbondale, IL: Universities Council on Water Resources.

Leidner, A. J., Rister, M. E., Sturdivant, A. W., Lee, T., Waidler, D., Seawright, E. K., Lacewell, R. D., Srinivasan, R., Narasimhan, B., Wolfe, C., Andrews, D., Ernst, M., Owens, J., Lesikar, B., Adams, R. F., Berthold, A., Jones, C. A., & Harris, B. L. (2010, November). *Consideration of economics while identifying best management practices for watershed protection plans*. Presentation at the Watershed Management to Improve Water Quality Conference, Baltimore, MD.

Leigh, E. W., Barroso, M., & Fipps, G. (2011, January). *Reservoir complex GPS survey for Hidalgo and Cameron Counties Irrigation District No. 9* (TWRI Report No. TR-368). College Station: Texas Water Resources Institute, Texas A&M System.

Leigh, E. W., & Fipps, G. (2011, January). *Inundation map of Hidalgo and Cameron Counties Irrigation District No. 9's reservoir complex* (TWRI Report No. TR-369). College Station: Texas Water Resources Institute, Texas A&M System.

Leigh, E., Fipps, G., Karimov, A., & Barroso, M. (2010, May). *Task 1 Extension: Irrigation District Studies*. Presentation at the Joint Rio Grande Basin Initiatives Annual Conference, Alpine, TX.

Leigh, E., Karimov, A., Barroso, M., & Fipps, G. (2010, May). *Evaluation of canal lining projects in the Rio Grande Valley of Texas*. Poster presented at the Joint Rio Grande Basin Initiatives Annual Conference, Alpine, TX.

Leigh, E., Karimov, A., & Fipps, G. (2010, June). *District telemetry and automation: Costs and capabilities*. Presentation to the Donna Irrigation District-Hidalgo County No. 1, Donna, TX.

Leigh, E., Karimov, A., & Fipps, G. (2010, September). Synthetic Canal Lining Evaluation Project. *Proceedings of the 2010 USCID Conference, "Meeting Irrigation Demands in a Water-Challenged Environment: SCADA and Technology – Tools to Improve Production."* Fort Collins, CO: U.S. Committee on Irrigation and Drainage (USCID)

Seawright, E. K. (2010, July). *Water and economic justification of biological control of Arundo donax (giant reed) along the Rio Grande*. Presentation at the Graduate Student Extension Competition, Agricultural and Applied Economics Association Conference, Denver, CO.

Sturdivant, A. W., Rister, M. E., & Lacewell, R. D. (2009, July). Rate analyses for irrigation districts in South Texas [Abstract]. *Proceedings of the 2009 Universities Council on Water Resources and the National Institutes for Water Resources Annual Meeting*. Carbondale, IL: Universities Council on Water Resources.

Sturdivant, A. W., Rister, M. E., Lacewell, R. D., Hogan, R., Michelsen, A. M., Sheng, Z., Seawright, E. K., Leidner, A. J., Becker, T., McLaughlin, W., & Conrad, A. (2010, May). *Economists: Task 1*. Presentation at the Joint Rio Grande Basin Initiatives Annual Conference, Alpine, TX.

Sturdivant, A. W., Rister, M. E., Lacewell, R. D., Seawright, E. K., & Michelsen, A. M. (2010, February). *Rio Grande Basin Initiative: Bringing economics, finance, accounting, and computer modeling to water planning*. Presentation at the 2010 Land Grant and Sea Grant National Water Conference, Hilton Head, SC.

Task 2 Extension

Swanson, C. (2010, November). *TexasET Network and website*. Presentation at the Texas Commission on Environmental Quality Irrigation Advisory Council water conservation meeting, Austin.

Swanson, C., & Fipps, G. (2010). *Evaluation of smart irrigation controllers: Year two (2009) results* (TWRI Report No. TR-364). College Station: Texas Water Resource Institute, Texas A&M System.

Swanson, C., & Fipps, G. (2010, February). *School of Irrigation short course program*. Poster presented at the Dallas Irrigation Association Annual Expo, Dallas, TX.

Swanson, C., & Fipps, G. (2010, February). *TexasET Network and website*. Poster presented at the Dallas Irrigation Association Annual Expo, Dallas, TX.

Swanson, C., & Fipps, G. (2010, August). *Irrigation Technology Center updates*. Presentation at the Texas Turf Irrigation Association general membership meeting, San Antonio.

Swanson, C., & Fipps, G. (2010, October). *TexasET Network and website*. Poster presented at the Texas Irrigation Expo, Mercedes.

Swanson, C., & Fipps, G. (2010, December). *School of Irrigation short course program*. Poster presented at the Irrigation Association Annual Expo, Phoenix, AZ.

Swanson, C., & Fipps, G. (2010, December). *TexasET Network and website*. Poster presented at the Irrigation Association Annual Expo, Phoenix, AZ.

Swanson, C., & Fipps, G. (2010, December). *TexasET Network and website*. Presentation at the Tarrant Regional Water District monthly agency-collaboration meeting, Fort Worth, TX.

Task 3 Extension

Swanson, C., & Fipps, G. (2010, December). *TexasET Network and website*. Presentation at the Tarrant Regional Water District monthly agency-collaboration meeting, Fort Worth, TX.

Bonaiti, G., & Fipps, G. (2010, March). WaterGIS website and ArcGIS server demonstration. Presentation to the Delta Lake Irrigation District, Edcouch, TX.

Bonaiti, G., & Fipps, G. (2010, May). *GIS as a real-time decision support system in Brownsville Irrigation District*. Poster presented at the Joint Rio Grande Basin Initiatives Annual Conference, Alpine, TX.

Bonaiti, G., & Fipps, G. (2010, September). Use of GIS as a real-time decision support system for irrigation districts. *Proceedings of the 2010 USCID Conference, "Meeting Irrigation Demands in a Water-Challenged Environment: SCADA and Technology—Tools to Improve Production."* Fort Collins, CO: U.S. Committee on Irrigation and Drainage (USCID).

Bonaiti, G., Fipps, G., Leigh, E., Karimov, A., & Barroso, M. (2010, May). *Task 3 Extension: Institutional Incentives for Efficient Water Use*. Presentation to the Joint Rio Grande Basin Initiatives Annual Conference, Alpine, TX.

Ward, F. A., DeMouche, L., & Landfair, S. (2010, April). *Analyzing water rights for the Lower Rio Grande Basin*. Presentation at the College of Business Research Seminar, New Mexico State University, Las Cruces.

Task 4 Extension

Encinias, A. M., Graham, D., & Murdock, C. (2010, May). *Oilseed production in northeastern New Mexico*. Presentation to the Union County Oilseed Workshop, Clayton, NM.

Encinias, A. M., Graham, D., & Murdock, C. (2010, December). *Portable on-farm biofuel extractor*. Presentation at the Western Sustainable Agriculture Research and Education (SARE) Workshop "Innovations in Sustainability: Techniques for New Mexico Agriculture," Clovis, NM. Available at aces.nmsu.edu/programs/sare/wsare-workshop-2009-sus.html.

Lamm, F. R., Bordovsky, J. M., Schwankl, L. J., Grabow, G. L., Enciso-Medina, J., Peters, T. R., Colaizzi, P. D., Trooien, T. P., & Porter, D. O. (2010). *Subsurface drip irrigation: Status of the technology in 2010*. Paper presented

at the 5th National Decennial Irrigation Conference, American Society of Agricultural and Biological Engineers (ASABE) and Irrigation Association.

Lamm, F. R., Colaizzi, P., Bordovsky, J. P., Trooien, T. P., Enciso-Medina, J., Porter, D. O., Rogers, D. H., & O'Brien, D. M. (2010). *Can subsurface drip irrigation (SDI) be a competitive irrigation system in the Great Plains region for commodity crops?* Paper presented at the 5th National Decennial Irrigation Conference, American Society of Agricultural and Biological Engineers (ASABE) and Irrigation Association.

Leinauer, B. (2010, March). *Turfgrass water conservation*. Presentation at the spring meeting of the Inland Empire Golf Course Superintendents Association, Walla Walla, WA.

Leinauer, B. (2010, November). *Irrigation management*. Presentation at the DEULA Rheinland Head Greenkeeper Continuing Education Seminar, Kempen, Germany.

Leinauer, B. (2010, November). *Measuring turf stress: Tools for the turf manager*. Presentation at the COMPO Sports Turf Seminar "Everything About Sports Turf," Bay Arena, Leverkusen, Germany.

Leinauer, B. (2010, November). *Measuring turf stress: Tools for the turf manager*. Presentation at the COMPO Sports Turf Seminar "Everything About Sports Turf," Imtech Arena, Hamburg, Germany.

Leinauer, B. (2010, November). *Measuring turf stress: Tools for the golf course superintendent*. Presentation at the Regional Golf Course Superintendents meeting, Riedberg, Germany.

Leinauer, B., & Cisar, J. (2010, February). *Irrigation technologies and water management*. Presentation at the Golf Course Superintendents Association of America 2010 Education Conference, San Diego, CA.

Moorman, J., & Encinias, A. M. (2011, January 7). NMSU studies camelina oilseed as crop, livestock feed for northeastern New Mexico. *New Mexico State University News Center*. Available at <http://newscenter.nmsu.edu/news/article/?action=show&id=7501>.

Sevostianova, E. (2010, October). *Using sensor technology to measure soil moisture and to determine irrigation requirement*. Presentation at the 2010 Southwest Turfgrass Association Annual Conference, Ruidoso, NM.

Teveni, P., Heerema, R., & Mexal, J. (2010, March). *The effect of deficit irrigation on yield, quality, and return bloom during three different growth stages in pecan*. Presentation at the Western Pecan Growers Association Conference, Las Cruces, NM.

Young, M., Nelson, S., Klose, S., & Enciso, J. (2010, August). *Assessing irrigation methods based on grapefruit pack-out in the Lower Rio Grande Valley* (FARM Assistance Focus Publication No. 2010-4). College Station: Texas AgriLife Extension Service. Available at <http://farmassistance.tamu.edu/publications/focus/index.php>.

Young, M., Nelson, S., Klose, S., & Enciso, J. (2010, September). *An evaluation of flood irrigation and compost use in south Texas Rio Red grapefruit production* (FARM Assistance Focus Publication No. 2010-5). College Station: Texas AgriLife Extension Service. Available at <http://farmassistance.tamu.edu/publications/focus/index.php>.

Task 5 Extension

Clayton, B., Kniffen, B., & Woodson, D. (2010, March). *Rainwater harvesting: Making a rain barrel* (Publication L-5518). College Station: Texas AgriLife Extension Service.

Clayton, B., Kniffen, B., & Woodson, D. (2010, December). *Como hacer un barril de lluvia* (Publication L-5518S). College Station: Texas AgriLife Extension Service.

DeMouche, L. (2009, October). CoCoRaHS training video for New Mexico State University YouTube Channel. Uploaded to NMSU College of Agricultural, Consumer and Environmental Sciences YouTube Channel. <http://www.youtube.com/nmsuaces>.

DeMouche, L. (2010, March). CoCoRaHS training for USDA Farm Service Agency, Socorro, NM.

DeMouche, L. (2010, April). *Water conservation for New Mexico*. Presentation at the Raytheon Earth Day, White Sands Missile Range, NM.

DeMouche, L. (2010, May). CoCoRaHS training for Quay County Ag Day, Tucumcari, NM.

DeMouche, L. (2010, May). CoCoRaHS training session for RGBI participants. Presented at the Joint Rio Grande Basin Initiatives Annual Conference, Alpine, TX.

DeMouche, L. (2010, May). *Task 5 update*. Presentation at the Joint Rio Grande Basin Initiatives Annual Conference, Alpine, TX.

DeMouche, L. (2010, July). *Water conservation: Rainwater harvesting*. Presentation at the McKinley Youth Conservation Corps Program, Gallup, NM.

DeMouche, L. (2010, December). CoCoRaHS training for USDA Farm Service Agency, San Miguel County, Las Vegas, NM.

Lesikar, B., Harris, J., Mechell, J., Smith, J. W., & Boellstorff, D. E. (2010, May). *Texas RGBI Urban Water Conservation (Task 5)*. Presentation at the Joint Rio Grande Basin Initiatives Annual Conference, Alpine, TX.

Smith, J. W., Feagley, S. E., Dozier, M. C., Lesikar, B. J., Kniffen, B., Mechell, J., Storz, B., Cathey, J., & Boellstorff, D. E. (2010, May). *Rainwater harvesting 2009, Rio Grande Basin Initiative*. Poster presented at the Joint Rio Grande Basin Initiatives Annual Conference, Alpine, TX.

Task 6 Extension

Boellstorff, D. E., McFarland, M. L., Lesikar, B. J., Fielder, K., Smith, J. W., Dennis, S. O., Ferrier, L., Kizer, M., Smolen, M. D., & Lamb, J. (2010). *Southern Region Well Owner Network: Development and implementation*. Presentation at the Land Grant and Sea Grant National Water Conference, Hilton Head, SC. Abstract available at <http://www.usawaterquality.org/conferences/2010/PDF%27s/Boellstorff.pdf>. Presentation available at http://www.usawaterquality.org/conferences/2010/TuesdayPDF%27s/Concurrent_Sessions/SessionD_Wastewater_1pm-3pm/bellstorff.pdf.

Bryant, G., Hart, G., Masser, M., Smith, J. W., & Boellstorff, D. E. (2010, May). *Texas RGBI environment, ecology, and water quality protection (Task 6)*. Presentation at the Joint Rio Grande Basin Initiatives Conference, Alpine, TX.

Hart, C. R. (2010). *Saltcedar management in Texas*. Presentation at the Texas Section Society for Range Management annual meeting, Odessa.

Hart, C. R., & Hatler, W. (2010). *Ground applications on Arundo donax (Rangeland Weed and Brush Control Research/Demonstration Report)*. College Station: Texas AgriLife Extension Service. Available at <http://stephenville.tamu.edu/ag-programs/ecosystem-science-management/rangeland-weed-and-brush-control-researchdemonstration-reports/>.

Hart, C. R. (2010). *Saltcedar management in Texas*. Presentation at the Texas Section Society for Range Management annual meeting, Odessa.

Hart, C. R., & Hatler, W. (2010). *Ground applications on Arundo donax (Rangeland Weed and Brush Control Research/Demonstration Report)*. College Station: Texas AgriLife Extension Service. Available at <http://stephenville.tamu.edu/ag-programs/ecosystem-science-management/rangeland-weed-and-brush-control-researchdemonstration-reports/>.

Masser, M. P. (2010, August). *Aquatic vegetation herbicide control water use restrictions* (Table 2, revised). College Station: Texas AgriLife Extension Service.

Masser, M. P. (2010, August). *Treatment response to common aquatic plants to registered(1) herbicides and grass carp* (Table 1, revised). College Station: Texas AgriLife Extension Service.

Masser, M. P., & Woods, P. (2010, Fall). *Rio Grande Districts Aquatic Vegetation Management Newsletter, Vol. 8*. College Station: Texas AgriLife Extension Service, in collaboration with Texas A&M University College of Agriculture and Life Sciences, Department of Wildlife and Fisheries Sciences.

Sallenave, R., Carrasco, C., & Cowley, D. E. (2010). *Fishes in the Middle and Lower Rio Grande irrigation systems* (Circular 653). Available at http://aces.nmsu.edu/pubs/_circulars/CR-653..

Smith, J. W., Dozier, M. C., & Boellstorff, D. E. (2010, May). *Private water well screenings 2009, Rio Grande Basin Initiative*. Poster presented at the Joint Rio Grande Basin Initiatives Conference, Alpine, TX.

Task 7 Extension

DeMouche, L., & Hanson, A. (2010, June). *Tribal on-site training: Keys to success*. Presentation at the US EPA Regional Coordinators Meeting, Albuquerque, NM.

Hanson, A., DeMouche, L., Lesikar, B., & Dreager, A. (2011, March). *On-site wastewater management: A tribal manual* (New Mexico Cooperative Extension Service Publication Circular). Las Cruces: New Mexico Cooperative Extension Service.

Leinauer, B. (2010, March). *Non-chemical water conditioning and its effects on turfgrass*. Presentation at the spring meeting of the Inland Empire Golf Course Superintendents Association, Walla Walla, WA.

Leinauer, B. (2010, March). *Turfgrass water conservation*. Presentation at the spring meeting of the Inland Empire Golf Course Superintendents Association, Walla Walla, WA.

Leinauer, B. (2010, June). *New Mexico State University Extension update*. Presentation at the Western Regional Turfgrass Research (WERA-11) Meeting, Riverside, CA.

Leinauer, B. (2010, November). *Irrigation management*. Presentation at the DEULA Rheinland Head Greenskeeper Continuing Education Seminar, Kempen, Germany.

Leinauer, B. (2010, November). *Measuring turf stress: Tools for the golf course superintendent*. Presentation at the Regional Golf Course Superintendents Meeting, Riedberg, Germany.

Leinauer, B. (2010, November). *Measuring turf stress: Tools for the turf manager*. Presentaton at the COMPO Sports Turf Seminar, "Everything About Sports Turf," Hamburg, Germany.

Leinauer, B., & Cisar, J. (2010, February). *Irrigation technologies and water management*. Presentation at the Golf Course Superintendents Association of America 2010 Education Conference, San Diego, CA.

Leinauer, B., Serena, M., & Schiavon, M. (2010, May-June). Comparing spring and summer establishment of bermudagrass seed and sod under two irrigation systems using saline water. *TPI Turf News*, pp. 14-15.

Task 8 Extension

DeMouche, L. (2010, June). *New Mexico weather data and overview of weather network*. Presentation at the New Mexico Chile Association monthly meeting.

Skaggs, R. K. (2010, September). *Irrigation water conservation*. Presentation to water managers from Queretaro, Mexico, in Las Cruces, NM.

Skaggs, R. K., Samani, Z., Bawazir, A. S., & King, J. P. (2010, January). *Irrigation and water conservation issues in the Rio Grande Basin*. Presentation at National Science Foundation funded “Earth-Polis-Agua: A Workshop on Desertification in the Tri-City Region of Las Cruces-Juárez-El Paso,” Las Cruces, NM, Juárez, Mexico, and El Paso, TX.

RESEARCH

Task 1 Research

Cegon, A. B. (2010). *Utilizing geophysical methods for assessment and characterization of canal seepage in El Paso's lower valley irrigation delivery system*. Unpublished master's thesis, Stephen F. Austin State University, Nacogdoches, TX.

Jassby, D., Leidner, A. J., Xiao, Y., Gondikas, A., & Wiesner, M. R. (2010). Advanced technologies for tapping unconventional Texas waters. In R. C. Griffin (Ed.), *Water Policy in Texas: Responding to the Rise of Scarcity* (Chapter 10) Washington, DC: Resources for the Future.

Lacewell, R. D., Dubois, M., Michelsen, A. M., Rister, M. E., & Sturdivant, A. W. (2010, February). Transboundary water crises: Learning from our neighbors in the Rio Grande (Bravo) and Jordan River Watersheds. *Journal of Transboundary Water Resources*, 1, 95–123.

Leidner, A. J., Rister, M. E., Lacewell, R. D., & Sturdivant, A. W. (2010, March). *Water market transactions and institutions in the Texas Lower Rio Grande Basin*. Poster presented at Student Research Week, College Station, TX.

Liu, Y., Sheng, Z., Kyger, N., Ye, Z., Florey, K., Cegon, A., Marmolejo, R. S., & Gastelum, J. (2010, May). *Water conservation through soil moisture monitoring in an arid region*. Poster [Poster Presentation Award, 2nd place] presented at the 2010 Joint Rio Grande Basin Initiatives Annual Conference, Alpine, TX.

Rister, M. E., Lacewell, R. D., Sturdivant, A. W., Lee, T., Srinivasan, R., Narasimhan, B., Wolfe, C. D., Waidler, D., Andrews, D., Ernst, M., & Owens, J. (2009, July). Toward identifying optimal best management practices for watershed management of water quality [Abstract]. *Proceedings of the 2009 Universities Council on Water Resources and National Institutes for Water Resources Annual Meeting*. Carbondale, IL: Universities Council on Water Resources.

Rister, M. E., Lacewell, R. D., Sturdivant, A. W., Lee, T., Srinivasan, R., Narasimhan, B., Wolfe, C. D., Waidler, D., Andrews, D., Ernst, M., & Owens, J. (2009, August). Integrating SWAT modeling and economic considerations to develop an economic-based watershed management plan [Abstract]. *Proceedings of the 2009 International SWAT Conference*. Temple, TX: USDA Agricultural Research Service.

Rister, M. E., Lacewell, R. D., Sturdivant, A. W., Lee, T., Srinivasan, R., Narasimhan, B., Wolfe, C. D., Waidler, D., Andrews, D., Ernst, M., Owens, J., Lesikar, B., Gregory, L. F., Jones, C. A., & Harris, B. L. (2010, February). *Identifying optimal best management practices for watershed management: Economic and finance considerations*. Presentation at the 2010 Land Grant and Sea Grant National Water Conference, Hilton Head, SC.

Rister, M. E., Lacewell, R. D., Sturdivant, A. W., & Michelsen, A. M. (2011, February). *Water scarcity-futures uses and implications for policy: Challenges and opportunities for water of the Rio Grande*. Presentation at the 2011 annual meeting of the Southern Agricultural Economics Association, Corpus Christi, TX.

Rogers, C. S., Sturdivant, A. W., Rister, M. E., Lacewell, R. D., & Santiago, J. G. (2010, February). *Economic and financial costs of conventional surface-water treatment: A case study of the McAllen Northwest Facility* (TWRI Report No. TR-311). College Station: Texas Water Resources Institute, Texas A&M System.

Seawright, E. K., Rister, M. E., Lacewell, R. D., McCorkle, D. A., Sturdivant, A. W., Goolsby, J. A., & Yang, C. (2010, May). *Biological control of Arundo donax along the Rio Grande [River]: Benefit-cost, per-unit cost, and impact analysis of potential water saved*. Presentation at the Center for Natural Resource Economics and Policy Conference, New Orleans, LA.

Seawright, E. K., Rister, M. E., Lacewell, R. D., McCorkle, D. A., Sturdivant, A. W., Goolsby, J. A., & Yang, C. (2010, June). *Benefitcost, per-unit cost, and impact analysis of potential water saved from the biological control of*

Arundo donax *along the Rio Grande [River]*. Presentation at the Mid-Continent Regional Science Association/IMPLAN Conference, St. Louis, MO.

Seawright, E. K., Rister, M. E., Lacewell, R. D., Sturdivant, A. W., & Goolsby, J. A. (2009, February). Economic implications of biological control of giant reed on the Rio Grande [Abstract]. *Proceedings of the 2009 USDA CSREES National Water Conference*. Washington, DC: USDA Cooperative State Research, Education, and Extension Service.

Sheng, Z. (2010, December). *Precision irrigation: Estimating ET over pecan orchards through moisture monitoring, eddy covariance system and remote sensing*. Presentation at the 2010 Sino-U.S. International Workshop on Intelligent Equipment for Precision Agriculture and Airborne Remote Sensing and Measurement for Agriculture, College Station, TX.

Sheng Z., Ye, Z., Di Giovanni, G., & Liu, Y. (2010, June). *Graywater and brackish groundwater irrigation and their impacts on vegetable production*. Presentation at the American Society of Agricultural and Biological Engineering Annual Conference, Pittsburgh, PA.

Task 3 Research

DeMouche, L., Landfair, S., & Ward, F. (2010). *Analysis of water right prices in New Mexico's Lower Rio Grande Basin*. Manuscript submitted for publication.

DeMouche, L., Landfair, S., & Ward, F. (2010, December). *Analysis of water right prices in New Mexico's Lower Rio Grande Basin* (TR-356). Las Cruces: New Mexico Water Resources Research Institute, New Mexico State University.

Lacewell, R. D., Dubois, M., Michelsen, A. M., Rister, E. M., & Sturdivant, A. W. (2010). Transboundary water crises: Learning from our neighbors in the Rio Grande (Bravo) and Jordan River watersheds. *Journal of Transboundary Water Resources*, 1, 95–123.

Michelsen, A. M. (2010, April). *Potential economic benefits of reducing salinity in the Upper Rio Grande Basin*. Presentation at Colorado American Water Resources Association Annual Symposium, "Uncertainty and Future Water Management of Colorado's Water Resources," Golden, CO.

Michelsen, A. M. (2010, May). *Transboundary water resources management and institutions: A case study, the Rio Grande*. Keynote speech at Korea Water Resources Association Annual Conference, Daejeon, Korea.

Michelsen, A. M. (2010, August-September). *Water resource economics: Economies of water, water and energy nexus and innovative solutions for water resources management*. Presentation at 2010 American Water Resources Association International Specialty Conference, San Juan Puerto Rico.

Michelsen, A. M., & Cortez, F. (2010, June 16). *Drought Watch on the Rio Grande Newsletter* [press release and graphs]. El Paso: Texas AgriLife Research and Extension Center, in collaboration with U.S. Bureau of Reclamation.

Michelsen, A. M., & Cortez, F. (2010, August 25). *Drought Watch on the Rio Grande Newsletter* [press release and graphs]. El Paso: Texas AgriLife Research and Extension Center, in collaboration with U.S. Bureau of Reclamation.

Michelsen, A. M., Sheng, Z., Creel, B., & Harris, B. L. (2010, July). *U.S.-Mexico Transboundary Aquifer Assessment Program: Challenges and opportunities*. Presentation at Universities Council on Water Resources and National Institutes for Water Resources Annual Conference, "HydroFutures: Water Science, Technology and Communities," Seattle, WA.

Robinson, J. R. C., Michelsen, A. M., & Gollehon, N. R. (2010). Mitigating water shortages in a multiple risk environment. *Water Policy*, 12, 114–128.

Sheng, Z. (2010, May). *Use of graywater and brackish water for cotton and vegetable production*. Presentation at Regional Science Workshop “Using Treated Graywater as an Environmental Solution,” U.S. Environmental Protection Agency Region 4, Atlanta, GA.

Sheng, Z. (2010, June). *Characterization of river flow and salt-loading and establishing a coordinated water resources database within the Rio Grande project area*. Presentation at the Workshop on Climate Change and Potential Adaptation Responses to Protecting the Natural Resources in the Big Bend Region, sponsored by National Oceanic Atmospheric Administration Sector Application Research Program (NOAA SARP), Alpine, TX.

Sheng, Z. (2010, August). *Water conservation in arid regions*. Presentation at seminar at Xinjiang Institute of Water Resources and Hydropower, Urumqi, China.

Sheng, Z. (2010, September). *Semi-arid hydrology in the Rio Grande Basin*. Presentation at the Agricultural Engineering, Civil Engineering, and Water Management and Hydrological Science Program Seminar, Texas A&M University, College Station.

Sheng, Z., Michelsen, A. M., Liu, Y., Creel, B., McGuckin, T., & Lacewell, R. D. (2010, May). Statistical analysis of flow exchange and salt loading between the Rio Grande and underlying aquifers [CD-ROM; 1002–1011]. *Proceedings of the Environmental and Water Resources Institute, ASCE, World Environmental and Water Resources Congress*. Reston, VA: American Society of Civil Engineers.

Task 4 Research

Agehara, S., & Leskovar, D. I. (2010). Optimizing foliar application of abscisic acid to improve drought tolerance of melon [Abstract]. *HortScience*, 45(8), S50.

Crosby, K. M., Butcher, J., Yoo, K. S., & Leskovar, D. I. (2010). ‘TAM Ben Villalon’: A new multiple-virus-resistant, mild, green chile pepper. *HortScience*, 45(11), 1756–1758.

Crosby, K. M., Jifon, J. L., & Leskovar, D. I. (2010). Developing cantaloupe lines with resistance to multiple vine decline pathogens [Abstract]. *HortScience*, 45(4), 502.

Crosby, K. M., Leskovar, D. I., & Miller, M. (2010). Evidence that resistance to gummy stem blight (*Didymella bryoniae*) in Dudaim type melons (*Cucumis melo* ssp. *agrestis*) is a quantitative trait. In J. Thies, S. Kousik, & A. Levi (Eds.), *Cucurbitaceae 2010 Proceedings*, Alexandria, VA: ASHS Press.

Dhanekula, H. (2010, August). *Effect of sulfate and iron reducing bacteria on the uranium (VI) reduction through biostimulation with hydrogen and ethanol*. Research project, Texas A&M University-Kingsville.

Esparza, M., Raygoza, J., Setamou, M., & Nelson, S. D. (2010, September). *Impact of plant available calcium to reduce Asian citrus psyllid survival in citrus production*. Poster presented at USDA National Institute of Food and Agriculture Hispanic-Serving Institution Leadership Meeting, Washington, D.C.

Fowler, L., Lillywhite, J. M., & Simonsen, J. E. (2011, June). *Economic feasibility of biodiesel production using Camelina in New Mexico*. Paper to be presented at the 2011 International Food and Agribusiness Management Association 21st Annual World Food Forum and Symposium, “The Road to 2050: Sustainability as a Business Opportunity,” Frankfurt, Germany.

Heerema, R. (2010, May). *On-farm irrigation system management*. Presentation at the Joint Rio Grande Basin Initiatives Conference, Sul Ross University, Alpine, TX.

Heerema, R., Mexal, J., & Teveni, P. (2010, February). *Development of a regulated deficit irrigation strategy for pecans in the Southwest*. Presentation at Land Grant and Sea Grant National Water Conference, Hilton Head, SC.

Hinojosa, R. R. (2010, May). *Aldicarb degradation in flood-irrigated South Texas soils in relation to Asian citrus psyllid (Diaphorina citri Kuwayama) control*. Master’s thesis, Texas A&M University-Kingsville.

Jifon, J. L. (2010, June). *Grafting technology as an alternative for drought and disease management in vegetable production*. Presentation at the South Texas Sustainable Ag Task Force Meeting, Edinburg, TX.

Jifon, J. L. (2010, July). *New technologies for sustainable vegetable production: Drought and other stresses*. Presentation at the Organic Vegetable Gardening Workshop, South Texas Sustainable Ag Task Force, McAllen, TX.

Jifon, J. L., Leskovar, D. I., & Crosby, K. M. (2010). Rootstock effects on the water relations of grafted watermelons [Abstract]. *HortScience*, 45(8), S213.

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Leinauer, B., & Karcher, D. (2010, August). *Relationships between soil moisture, water repellency, localized dry spot, and soil surfactants on a sand-based turfgrass rootzone*. Presentation at 9th International Symposium on Adjuvants for Agrochemicals (ISAA), Munich, Germany.

Leskovar, D. I., Agehara, S., & Yoo, K. (2010). Deficit irrigation and plant density impact on growth, yield, bulb quality and quercetin of short-day onion [Abstract]. *Proceedings of 2010 International Horticultural Congress-International Society for Horticultural Science*.

Leskovar, D. I., & Bari, M. (2010). Il carciofo in USA. In A. e Calabrese (Ed.), *Il carciofo* (pp. 406–411). Milan, Italy: BayerCropScience.

Nelson, S. D., Enciso, J., Jifon, J., Rowland, D., & Leskovar, D. I. (2010, May). *Project overview in on-farm water conservation in South Texas*. Presentation at 2010 Joint Rio Grande Basin Initiatives Conference, Alpine, TX.

Nelson, S. D., Enciso, J., Peries, X., & Young, M. (2010, October). *Water savings and irrigation use efficiency in South Texas grapefruit production*. Poster presented at 2010 Irrigation Expo, Mercedes, TX.

Nelson, S. D., Hinojosa, R. R., & Romero, M. (2010, April). *Master's project overview in water conservation and management*. Presentation at Annual Consortium for Irrigation Research and Education (CIRE) Conference, Weslaco, TX.

Nelson, S. D., Romero, M., & Setamou, M. (2010, October-November). *Implications of sugarcane harvesting methods on atrazine movement*. Poster presented at the International Annual Meetings of the American Society of Agronomy-Crop Science Society of America-Soil Science Society of America, Long Beach, CA.

Nelson, S. D., Romero, M., Setamou, M., & Schuster, G. (2010, November). *Implications of sugarcane harvesting methods on atrazine movement*. Presentation at the International Annual Meetings of the American Society of Agronomy-Crop Science Society of America-Soil Science Society of America, Long Beach, CA.

Nelson, S. D., Simpson, C. R., & Gardiner, D. T. (2010, June). *Incorporating college students into a South Texas public landscape horticulture project*. Presentation at American Public Gardens Association Annual Conference, Atlanta, GA.

Nelson, S. D., Young, M., Enciso, J., & Peries, X. (2010, October). *Evaluation of compost use in Rio Red Grapefruit production*. Poster presented at 2010 Irrigation Expo, Mercedes, TX.

Nelson, S. D., Young, M., Enciso, J., & Peries, X. (2010, October). *On-farm water conservation strategies in citrus production for the LRGV*. Presentation at First Texas Irrigation Expo, Mercedes, TX.

- Nelson, S. D., Young, M., Setamou, M., Peries, X., & Enciso, J. (2011, February). *Evaluation of compost management in citrus for improved crop sustainability*. Technical report presented to the Southern Region American Society for Horticultural Scientists, Corpus Christi, TX.
- Niu, G., Rodriguez, D., Cabrera, R., Jifon, J., Leskovar, D. I., & Crosby, K. M. (2010). Salinity and soil type effects on emergence and growth of pepper seedlings. *HortScience*, *45*, 1265–1269.
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- Pedrozo, C. Â., Jifon, J. L., Barbosa, M. H. P., da Silva, J. A., Park, J-W., & de A. Silva, M. (2010, January). *Differential gene expression during and after water deficit stress in drought tolerant and susceptible genotypes of sugarcane*. Presentation at the 64th Annual Conference of the Subtropical Plant Science Society of America, Texas A&M University-Kingsville Citrus Center, Weslaco, TX.
- Pedrozo, C. Â., Jifon, J. L., Barbosa, M. H. P., da Silva, J. A., Park, J-W., & de A. Silva, M. (2010, January). *Differential gene expression in sugarcane genotypes during water deficit stress*. Presentation at the XIX Plant and Animal Genome Conference, San Diego, CA.
- Pedrozo, C. Â., Jifon, J. L., Barbosa, M. H. P., da Silva, J. A., Park, J-W., & de A. Silva, M. (2010, January). *Physiological and growth parameters of two sugarcane genotypes during drought stress*. Presentation at the 64th Annual Conference of the Subtropical Plant Science Society of America, Texas A&M University-Kingsville Citrus Center, Weslaco, TX.
- Pedrozo, C. Â., Jifon, J. L., Barbosa, M. H. P., da Silva, J. A., Park, J-W., Gracia, N. S., & de A. Silva, M. (2010). *Differential morphological, physiological, and molecular responses to water deficit stress in sugarcane: Implications for improving drought tolerance*. Manuscript submitted for publication.
- Raygoza, J. (2010, May). *Effects of organic production on Diaphorina citri dynamics of and nutrient absorption of citrus trees*. Master's thesis, Texas A&M University-Kingsville.
- Raygoza, J., Setamou, M., & Nelson, S. D. (2010, January). *Organic production practices on the dynamics of major citrus pests*. Poster presented at 64th Annual Subtropical Science Society Meeting, Weslaco, TX.
- Reddy, V. P., Madhurababu, K., Nelson, S. D., da Graca, J. V., & Skaria, M. (in press). Gene expression studies in sour orange and C-22 rootstocks challenged with the fungus *Phytophthora nicotianea* and the nematode *Tylenchulus semipenetrans*. *Pest Technology*, *4* (Special Issue 1).
- Romero, M. (2010, May). *Impact of altering sugarcane harvesting methods on atrazine adsorption to sugarcane leaf litter*. Master's thesis, Texas A&M University-Kingsville.
- Romero, M., Nelson, S. D., Setamou, M., & Schuster, G. (2010, January). *Impact of altering harvesting methods on the adsorption of atrazine to sugarcane residues*. Poster presented at 64th Annual Subtropical Science Society Meeting, Weslaco, TX.
- Romero, M., Nelson, S. D., Setamou, M., & Schuster, G. (2010, January). *Impact of altering harvesting methods on the adsorption of atrazine to sugarcane residues*. Poster presented at 2010 Texas A&M AgriLife Conference, Texas A&M University, College Station, TX.
- Setamou, M., Rodriguez, D., Saldana, R. R., Schwarzlose, G., Palrang, D., & Nelson, S. D. (2010). Efficacy and uptake of soil-applied imidacloprid in the control of Asian citrus psyllid and citrus leafminer, two foliar feeding citrus pests. *Journal of Economic Entomology*, *103*, 1711–1719.
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CSSA-SSSA. Madison, WI: American Society of Agronomy–Crop Science Society of America–Soil Science Society of America.

Sevostianova, E., Leinauer, B., & Maier, B. (2010, October–November). *Warm season turfgrass and rootzone quality under saline sprinkler and drip irrigation*. Presentation at 2010 American Society of Agronomy–Crop Science Society of America–Soil Science Society of America (ASA-CSSA-SSSA) Annual Meeting, Long Beach, CA.

Sevostianova, E., Leinauer, B., & Sevostianov, I. (2010). Quantitative characterization of the microstructure of a porous material in the context of tortuosity. *International Journal of Engineering Science*. doi:10.1016/j.ijengsci.2010.06.017.

Shinohara, T., Agehara, S., & Leskovar, D. I. (2010). Growth and physiology of artichoke transplants exposed to ABA, heat, and drought stresses [Abstract]. *HortScience*, 45(8), S51.

Simpson, C. R., Nelson, S. D., & Ajwa, H. A. (2010, August). *Impact of soil texture and organic matter content on MITC volatilization from soil columns*. Poster presented at the 19th World Congress of Soil Science, Brisbane, Australia.

Simpson, C. R., Nelson, S. D., & Ajwa, H. A. (in press). Impact of soil texture and organic matter content on MITC volatilization from soil columns. *Journal of Agricultural Science and Technology*.

Simpson, C. R., Nelson, S. D., Stratmann, J. E., & Ajwa, H. A. (in press). Surface water seal application to minimize volatilization loss of methyl isothiocyanate from soil columns. *Pest Management Science*, 66(6).

Teveni, P. (2010, November). *How do temporary water deficits during different phenological stages affect pecan fruiting, return bloom, and vegetative growth?* Graduate Enrichment Seminar, Las Cruces, NM.

Teveni, P., Heerema, R., & Mexal, J. (2010, July). *Regulated deficit irrigation during three development stages of pecan*. Presentation at Texas Pecan Growers Association Conference, San Marcos, TX.

Teveni, P., Heerema, R., & Mexal, J. (2010, September). *Response of pecan yield, quality and return bloom to water stress during three fruit development stages*. Presentation at American Society for Horticultural Science Conference, Palm Desert, CA.

Young, M., Nelson, S., Klose, S., & Enciso, J. (2010, August). *Assessing irrigation methods based on grapefruit pack-out in the Lower Rio Grande Valley* (FARM Assistance Focus Publication 2010-4). College Station: Texas AgriLife Extension Service.

Young, M., Nelson, S., Klose, S., & Enciso, J. (2010, September). *An evaluation of flood irrigation and compost use in South Texas Rio Red grapefruit production* (FARM Assistance Focus Publication 2010-5). College Station: Texas AgriLife Extension Service.

Young, M., Nelson, S., Klose, S., & Enciso, J. (2010, October). *Assessing irrigation methods based on grapefruit pack-out in the Lower Rio Grande Valley*. Poster presented at the 2010 Irrigation Expo, Mercedes, TX.

Task 5 Research

Ampim, Peter A. Y., Sloan, J. J., Jaber, F., Cabrera, R. I., Ryan, N., Wu, Y., & Guzik, E. (2010). Surface runoff water quality from multiple best management practices in North Texas [Abstract]. *Proceedings of the International Annual Meetings of the ASA-CSSA-SSSA*. Madison, WI: American Society of Agronomy–Crop Science Society of America–Soil Science Society of America.

Cabrera, R. I. (2010, January). *Cut-flower greenhouse rose production*. Presentation at 55th Atlantic Coast Agricultural Convention and Trade Show, Atlantic City, NJ.

Cabrera, R. I. (2010, February). *Mistletoe biology and control in urban host trees*. Presentation at North Central Texas Urban Forestry Workshop, Grand Prairie, TX.

Cabrera, R. I. (2010, May). *Physiology and mineral nutrition applied to fertilization management in protected crops: Analyses of physiological and abiotic disorders in intensively grown crops* [Spanish]. Series of lectures presented at graduate course in Mineral Nutrition, Fertigation, and Environmental Impact, Master's Program in Producción Vegetal en Cultivos Protegidos, Universidad de Almería, Spain.

Cabrera, R. I. (2010, July–September). Evaluating rootzone stresses and the role of the root system on rose crop productivity and water use efficiency: Setting up the experiment. *International Cut Flower Growers Association Bulletin*, 9–13.

Cabrera, R. I. (2010, October). *Considerations on water quality and salinity for ornamental plant production*. Presentation at East Texas Nursery and Greenhouse Conference, Tyler, TX.

Cabrera, R. I. (2010, October). *Nitrogen in ornamental horticulture: Productivity, quality and environmental impact* [Spanish]. Seminar presented at Colegio de Postgraduados, Córdoba, Veracruz, México.

Jaber, F., Ampim, P. A., Guzik, E., Sloan, J. J., & Cabrera, R. I. (2010). Evaluation of best management practices on croplands and pastures in North Central Texas [Abstract]. *Proceedings of the Annual Meeting of the American Society of Agricultural and Biological Engineers*. St. Joseph, MI: American Society of Agricultural and Biological Engineers.

Miyamoto, S., Niu, G., & Martinez, I. (2010). Salinity and specific ion effects on onion establishment in relation to disposal of desalting concentrates. *Desalination and Water Treatment*, 16, 381–392.

Niu, G. (2010, August). *Growth and physiological responses of ornamental plants to salinity*. Presentation at Taiwan-USA symposium on technology of cultivation and molecular breeding for ornamental crops, Taichung, Taiwan.

Niu, G., & Cabrera, R. I. (2010). Growth and physiological responses of landscape plants to saline water irrigation: A review. *HortScience*, 45(11), 1605–1609.

Niu, G., & Cabrera, R. I. (2010). Irrigating ornamental horticultural plants with alternative water sources. In A. N. Sampson (Ed.), *Horticulture in 21st Century* (pp. 143–160). New York: Nova Science Publishers.

Niu, G., Gu, M., & Rodriguez, D. C. (2010, January). Nitrogen rate and form affected growth of Texas mountain laurel. *Proceedings of Southern Nursery Association*, 55, 349–353.

Niu, G., & Rodriguez, D. C. (2010, January). Growth response of selected bedding plants to three irrigation levels. *Proceedings of Southern Nursery Association*, 55, 195–199.

Niu, G., Rodriguez, D. S., & Gu, M. (2010). Salinity tolerance of *Sophora secundiflora* and *Cercis canadensis* var. *Mexicana*. *HortScience*, 45(3), 424–427.

Niu, G., Rodriguez, D. S., & Starman, T. (2010). Response of bedding plants to saline water irrigation. *HortScience*, 45(4), 628–636.

Niu, G., Rodriguez, D. S., Wang, M., & Starman, T. (2010, August). *Response of bedding plants to saline water irrigation*. Presentation at the International Horticultural Congress, Lisbon, Portugal.

Sloan, J. J., Cabrera, R. I., Ampim, P. A. Y., George, S. A., & Mackay, W. A. (2010). Performance of ornamental plants in alternative organic growing media amended with increasing rates of expanded shale. *HortTechnology*, 20, 594–602.

Solís-Pérez, A. R., Cabrera, R. I., & Sloan, J. J. (2010). Characterizing seasonal and diurnal ion and water uptake patterns in greenhouse roses. *Proceedings of the Southern Nursery Association Research Conference*, 55, 121–127.

St. Hillaire, R. (2010). *Landscape plants for the Lower Rio Grande Basin*. Las Cruces: New Mexico State University Board of Regents.

Wang, M., Niu, G., Rodriguez, D. C., & Zhang, D. (2010, January). Response of zinnia cultivars to salinity. *Proceedings of Southern Nursery Association*, 55, 189–194.

Task 6 Research

Carrasco, C. P. (2010). *Comparisons of the fish fauna within the lower Rio Grande of New Mexico to the adjacent irrigation system and historical records of occurrence*. Master's thesis, New Mexico State University, Las Cruces.

Cowley, D. E. (2010, October). *Population genetics of Rio Grande cutthroat trout and tadpole shrimp in New Mexico, U.S.A.* Presentation at seminar, University of Vienna, Vienna, Austria.

Davis, L., Macdonald, K. S., III, & Cowley, D. E. (2010, July). *Determination reproductive modes in unisexual populations of tadpole shrimp in the Chihuahuan Desert*. Poster session presented for the New Mexico State University-Howard Hughes Medical Institute Undergraduate Research Scholars Program, Las Cruces.

Fiore, C., Schroeder, J., Schmidt, N., & Murray, L. (2010). A comparative analysis of water use by greenhouse-grown weeds commonly found on the Leasburg Canal System in Southern New Mexico. *Proceedings of Western Society of Weed Science*, 63, 36.

Hill, J. (2010). *The factors affecting Equisetum hyemale invasiveness on Elephant Butte Irrigation District Canals, and possible strategies for its control*. Master's thesis, Department of Entomology, Plant Pathology and Weed Science, New Mexico State University.

Hill, J., Schroeder, J., Murray, L., Ashigh, J., & Ulery, A. (2010). Changes in Equisetum hyemale densities and life stage on irrigation canals in southern New Mexico [Abstract]. *Proceedings of Weed Science Society of America*. Available at <http://wssa.net/Meetings/WSSAAbstracts/abstractsearch.php>.

Kui, L., Li, F., Shallock, J. R., Moore, G. W., & West, J. B. (2010, August). *Ecohydrological controls on the distribution and performance of giant reed (Arundo donax) in the Rio Grande Valley*. Presentation at Ecological Society of America Annual Meeting, Pittsburgh, PA.

Macdonald, K. S., III, Sallenave, R., & Cowley, D. E. (2010, June). *Morphological and genetic variation in Triops (Branchiopoda:Notostraca) from ephemeral waters in the northern Chihuahuan Desert of North America*. Poster presented at North American Benthological Society (NABS) meeting, Santa Fe, NM.

Macdonald, K. S., III, Sallenave, R., & Cowley, D. E. (2010, August). *Morphological and genetic variation in Triops (Branchiopoda:Notostraca) from ephemeral waters in the northern Chihuahuan Desert of North America*. Poster presented at New Mexico Water Conference, Socorro.

Macdonald, K. S., III, Sallenave, R., & Cowley, D. E. (in press). Morphological and genetic variation in Triops (Branchiopoda: Notostraca) from ephemeral waters of the northern Chihuahuan Desert of North America. *Journal of Crustacean Biology*.

Moore, G. W. (in press). *Arundo donax*: Life history traits explain success and threats to riparian biota. *Invasive Plant Science and Management Journal*.

Moore, G. W., Watts, D. A., & Goolsby, J. A. (2010). Ecophysiological responses of giant reed (*Arundo donax*) to herbivory. *Invasive Plant Science and Management*. doi: 10.1614/IPSM-D-10-00007.1

Sallenave, R. (2010, July). *Understanding your watershed*. Presentation to Youth Conservation Corps, Gallup, NM.

Watts, D. A., & Moore, G. W. (in press). Water use dynamics of *Arundo donax* from leaf to stand. *Wetlands*.

Wesche, T. A., Wesche, L. B., Broderick, S., Cowley, D. E., & Wyman, B. (2010). *Development of Rio Grande silvery minnow refugia at drain outfalls in the Isleta Reach of the Middle Rio Grande, New Mexico*. Project Completion Report, Grant No. 05-FG-40-2436, Middle Rio Grande Endangered Species Collaborative Program.

West, J. B. (2010, September). *Ecohydrology under climate change*. Presentation at Water Degree Program joint seminar series, Texas A&M University.

Task 7 Research

DeMouche, L. (2010, May). Task 7: *Recycled wastewater for agricultural use*. Presentation at the Joint Rio Grande Basin Initiatives Conference, Alpine, TX.

DeMouche, L., Hanson, A., & Lesikar, B. (2010, February). *New Mexico tribal on-site wastewater project*. Presentation at the USDA National Water Quality Conference, Hilton Head, SC.

DeMouche, L., Pfeiffer, J., Hanson, A., & Skaggs, R. (2009, December). *Development of policies, institutions and procedures for water reuse*. Poster presented at the American Geophysical Union annual meeting, San Francisco, CA.

Ganjugunte, G. K., & Braun, R. J. (2010). *Application of electromagnetic induction technique for soil salinity and sodicity appraisal*. Proceedings of the International Conference on Environmental Engineering and Applications (ICEEA), Singapore, 277–280. doi: 10.1109/ICEEA.2010.5596142.

Ganjugunte, G. K., Braun, R. J., & Wu, Y. (2010, November). *Evaluating the feasibility of treated urban wastewater (Type II) irrigation for bioenergy crop production in Far West Texas*. Poster presented at the International Annual Meetings of the American Society of Agronomy–Crop Science Society of America–Soil Science Society of America–Geological Society of America (ASA-CSSA-SSSA-GSA), Long Beach, CA.

Ganjugunte, G. K., Peterson, G., Silva, J. D., Niu, G., & Miyamoto, S. (2010, November). *Evaluation of ameliorative effects of cellulosic bioenergy crops on soil salinity and sodicity*. Poster presented at the International Annual Meetings of the ASA-CSSA-SSSA-GSA, Long Beach, CA.

Ganjugunte, G. K., Sheng, Z., & Braun, R. J. (2010). Salinity management using anionic organic polymer in a pecan field with calcareous-sodic soils in El Paso, Texas. *Journal of Environmental Quality*, 40:1314–1321.

Ganjugunte, G. K., Sheng, Z., & Clark, J. A. (2010). Improved irrigation scheduling to conserve freshwater in pecan orchards of El Paso, Texas. *HortTechnology*. Manuscript submitted for publication.

Ganjugunte, G. K., Sheng, Z., & Clark, J. A. (2011). Delineating salinity and sodicity distribution in major soil series of El Paso, Texas, using electro-magnetic induction technique. *Soil Science*, 176:441–447.

Ganjugunte, G. K., Trostle, C. L., & Braun, R. J. (2010, July). Irrigation effects of cooling tower effluent on soil chemistry and alfalfa in the Rio Grande River Basin. *Land Degradation and Development*, 22:410–424.

Ganjugunte, G. K., Vance, G. F., Gregory, R. W., Urynowicz, M. A., & Surdam, R. C. (2011). Improving saline-sodic coalbed natural gas water quality using natural zeolites. *Journal of Environmental Quality*, 10:57–66.

Hanson, A., DeMouche, L., & Skaggs, R. (2010, June). *Water reuse in small scale wastewater*. Presentation at National Environmental Health Association/State On-site Regulatory Association Annual Conference, Albuquerque, NM.

Leinauer, B. (2010, February). *Water conservation in turfgrass irrigation*. Presentation at Land Grant and Sea Grant National Water Conference, Hilton Head, SC.

Leinauer, B. (2010, August). *Water demands and water conservation strategies in turfgrass management*. Speech at 28th International Horticultural Congress, Lisbon, Portugal.

Leinauer, B. (2010, October). *Extension and turf research at New Mexico State University*. Presentation at Southwest Turfgrass Association Annual Conference, Ruidoso, NM.

Leinauer, B. (2010, November). *Measuring turf stress: Tools for the turf manager*. Speech at COMPO Sports Turf Seminar “Everything About Sports Turf,” Leverkusen, Germany.

Leinauer, B., & Devitt, D. (in press). Irrigation science and technology (chapter contribution). In B. Horgan, J. Stier, & S. Bonos (Eds.), *Turfgrass Monograph*. Madison, WI: American Society of Agronomy–Crop Science Society of America–Soil Science Society of America.

Leinauer, B., & Goss, R. (2010, June). *Turfgrass research at New Mexico State University*. Presentation at Western Regional Turfgrass Research (WERA-11) meeting, Riverside, CA.

Leinauer, B., & Karcher, D. (2010, August). *Relationships between soil moisture, water repellency, localized dry spot, and soil surfactants on a sand-based turfgrass rootzone*. Presentation at 9th International Symposium on Adjuvants for Agrochemicals, Munich, Germany.

Leinauer, B., Serena, M., Schiavon, M., & Singh, D. (2010). Seed coating and seeding rate effects on turfgrass germination and establishment. *HortTechnology*, 20, 179–185.

Leinauer, B., Serena, M., Sevostianova, E., & Schiavon, M. (2010, May). *Utilization of saline waters for turfgrass irrigation: 2009 accomplishments*. Presentation at Joint Rio Grande Basin Initiatives Annual Conference, Alpine, TX.

Leinauer, B., Sevostianova, E., Serena, M., & Schiavon, M. (2010). Irrigating turfgrasses with impaired water: Possibilities and challenges. *Proceedings of 2nd European Turfgrass Society Conference*, 252–256.

Leinauer, B., Sevostianova, E., Serena, M., Schiavon, M., & Macolino, S. (2010). Conservation of irrigation water for urban lawn areas. *Acta Horticulturae*, 881, 487–492.

Macolino, S., Serena, M., Leinauer, B., & Ziliotto, U. (2010). Preliminary findings on the correlation between water-soluble carbohydrate content in stolons and first-year green-up of seeded bermudagrass cultivars. *HortTechnology*, 20, 758–763.

Miyamoto, S. (2010, July). Salt leaching in irrigated pecan orchards of the Southwest. *Pecan South*, 43(5), 28–36.

Miyamoto, S. (2010, September). *Soil management in irrigated pecans*. Presentation at the Arizona Pecan Growers meeting, Tucson.

Miyamoto, S. (2010, September). *Bioenergy crop production in saline areas*. Presentation to the El Paso–Lubbock Bioenergy Project, Pecos, TX.

Miyamoto, S. (2010). *Supplement to diagnosis and management of salinity problems in irrigated pecan production: Salt leaching (TR-287A)*. El Paso: Texas AgriLife Research and Extension Center, and College Station: Texas Water Resources Institute, The Texas A&M University System.

Niu, G., Rodriguez, D. S., Cabrera, R., Jifon, J., Leskovar, D., & Crosby, K. (2010). Salinity and soil type effects on emergence and growth of pepper seedlings. *HortScience*, 45(8), 1265–1269.

Niu, G., Rodriguez, D. S., & Call, E. (2010, August). *Response of chile peppers to saline water irrigation*. Presentation at International Horticultural Congress, Lisbon, Portugal.

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