

## Publications and Presentations for Objective 1

### Compare irrigation scheduling technologies and develop grower-appropriate scheduling products

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- Colaizzi, PD, PH Gowda, TH Marek, and DO Porter. 2009. Irrigation in the Texas High Plains: A brief history and potential reductions in demand. *Irrig. and Drain.* 58(3): 257-274.
- Deb S, MK Shukla, P Sharma, and J Mexal. 2011. Patterns of Soil Water Depletion In Irrigated Pecan Orchards In the Lower Rio Grande Valley of Southern New Mexico. International Annual Meeting of Soil Science Society of America, San Antonio, Texas.
- Deb S. and M. K. Shukla. 2012. Variability of hydraulic conductivity due to multiple factors. *American Journal of Environmental Science*. 8(5) 489-502
- Deb S. and M.K. Shukla. 2011. An overview of some hydrological watershed models. In: M.K. Shukla (Ed.) *Soil Hydrology, Land Use and Agriculture: Measurement and modeling*. CAB International, Wallingford, UK. 75-116
- Deb S.K., M.K. Shukla and J. Mexal. 2012. A peak at the other half of your orchard: The roots. 46th Annual Western Pecan Growers Association Conference. March 4-6, 2012 Hotel Encanto de Las Cruces, Las Cruces, NM
- Deb S.K., M.K. Shukla and J. Mexal. 2012. Evaluation of compensated root water uptake pattern of greenhouse drip irrigated chile. 2012 Irrigation Show & Education Conference Nov. 2-6, Orlando, Florida.
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- Deb SK, MK Shukla, P Sharma, and JG Mexal. 2011. Patterns of soil water depletion in irrigated mature pecans of arid southern New Mexico. *Irrigation Science*. DOI: 10.1007/s00271-011-0293-1.
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- Porter, Dana. 2010. Irrigation Management in an Integrated Production System. Llano Estacado Cotton Conference. Muleshoe, TX. 01/210.
- Porter, Dana. 2010. Irrigation Management. Crosby County Soil Moisture Workshop. Lorenzo, TX. 05/05/10.
- Porter, Dana. 2010. Irrigation Management: Mid-Season to Harvest. Mid-Season Cotton Management Meeting. Plainview, TX. 07/08/10.
- Porter, Dana. 2010. Irrigation Technologies. West Plains Agricultural Conference. Levelland, TX. 01/18/10.
- Porter, Dana. 2010. Optimizing Irrigation: Efficient Irrigation Management in Integrated Production Systems. Salado Regional Meeting of the Texas Agricultural Industries Association. Salado, TX, October 12, 2010.
- Porter, Dana. 2010. Subsurface Drip Irrigation. Terry County SDI Workshop, Brownfield, TX. 01/19/10.
- Porter, Dana. 2012. "Efficient Irrigation in High Plains Production Systems." Invited presentation at the 12th Annual Commodity Symposium. Amarillo, TX. 11/28/12.
- Porter, Dana. 2012. Lamar County Irrigation Symposium. (Irrigation workshop). Paris, TX, 12/04/12.
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- Sammis, T., P. Sharma, M.K. Shukla, J. Wang, and D. Miller 2012. A water-balance drip-irrigation scheduling model. *Agricultural Water Management* 113:30–37
- Sampangi, R., K. Mohan, and C.C. Shock. 2012. Abiotic disorders of native plants. Annual meeting of the Great Basin Native Plant Selection and Increase Project. Salt Lake City, Utah, 22 February.
- Sanden B., A. Fulton, D. Doll, K. Shackel. 2012. Defining a Central Valley Almond ET/Yield Production Function for Almonds. Annual Research Conference of the Almond Board of California.
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- Schwankl, L., and T. Prichard. 2012. Chapter 11 - Irrigation Systems. UC ANR Prune Production Manual, pp. 99-109.
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- Sharma, P., M. K. Shukla, and J. Mexal. 2010. Spatial variability of soil hydraulic properties in agricultural fields of Southern New Mexico: Implication on irrigation management. New Mexico Water Research Symposium held in New Mexico Tech Campus, Scorro, NM, August 3, 2010.
- Sharma, P., M. K. Shukla, J. Mexal, and T. W. Sammis. 2010. Spatial variability of soil properties in agricultural fields of Southern New Mexico. 2010 International annual meetings, ASA-CSSA-SSSA, Oct. 31<sup>st</sup> Nov. 4, 2010, Long Beach, CA.



- Sharma, V. and S. Irmak. 2012. Mapping spatially-interpolated precipitation, reference evapotranspiration, actual crop evapotranspiration, and net irrigation requirements: Part II. Actual crop evapotranspiration and net irrigation requirements. *Transactions of the ASABE* 55(3): 923-936.
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- Shock, C.C. 2012. Native plant irrigation for seed production. Native Plant Seed Production Field Day. OSU Malheur Experiment Station. 16 May 2012. Ontario, OR. In Oregon State University Agricultural Experiment Station, Malheur Experiment Station Annual Report 2010, Department of Crop and Soil
- Shock, C.C. 2012. Onion production tour. Summer Farm Festival, OSU Malheur Experiment Station. 11 July 2012. Ontario, OR. Shock, C.C. 2012. Wildflower and native plant seed production. Summer Farm Festival, OSU Malheur Experiment Station. 11 July 2012. Ontario, OR.
- Shock, C.C. 2012. OSUs program in Malheur County. Ontario Kiwanis, Ontario, OR, 11 April. Also presented to the Ontario Chamber of Commerce, Ontario, OR, 30 April.
- Shock, C.C. 2012. Technology for youth. Summer Farm Festival, OSU Malheur Experiment Station. 11 July 2012. Ontario, OR.
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- Shock, C.C., E.B.G. Feibert, L.B. Jensen, and P. Richerson. 2010. Improving onion production while reducing nitrate loading. In Reducing Water Quality Impacts From Horticultural Crop Production. Annual Conference of the American Society of Horticulture Science, August 1-5, 2010, Palm Desert, CA.
- Shock, C.C., E.B.G. Feibert, L.D. Saunders, and N. Shaw. 2010. Do these plants need irrigation? The 2010 update. Great Basin Native Plant Selection & Increase Project Annual Meeting. January 26-27, 2010. Salt Lake City, UT
- Shock, C.C., E.B.G. Feibert, L.D. Saunders, and N. Shaw. 2010. Do these plants need irrigation? The 2010 update. Great Basin Native Plant Selection & Increase Project Annual Meeting. January 26-27, 2010. Salt Lake City, UT.
- Shock, C.C., E.B.G. Feibert, L.D. Saunders, and N. Shaw. 2010. Identification of herbicides for use in native forb seed production. Great Basin Native Plant Selection & Increase Project Annual Meeting. January 26-27, 2010. Salt Lake City, UT
- Shock, C.C., E.B.G. Feibert, L.D. Saunders, and N. Shaw. 2010. Identification of herbicides for use in native forb seed production. Great Basin Native Plant Selection & Increase Project Annual Meeting. January 26-27, 2010. Salt Lake City, UT.
- Shock, C.C., E.B.G. Feibert, L.D. Saunders, and N. Shaw. 2010. Native Forb Seed Production in Response to Irrigation. Native Plant Seed Growers Workshop: Cultural Practices for Native Plants. February 23, 2010. Ontario, OR
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- Shock, C.C., E.B.G. Feibert, L.D. Saunders, L.B. Jensen, K.S. Mohan, R. Sampangi, and H. Pappu. 2010. Comparison of irrigation systems and irrigation criteria for onion production under IYSV pressure. Summer Farm Festival and Annual Field Day, OSU Malheur Experiment Station. 13 July 2010. Ontario, OR.
- Shock, C.C., E.B.G. Feibert, L.D. Saunders, L.B. Jensen, K.S. Mohan, R. Sampangi, and H. Pappu. 2010. Iris Yellow Spot Virus Control Through Stress Reduction. Malheur County, Oregon and Idaho Onion Growers Annual Meeting. February 2, 2010. Ontario, OR.
- Shock, C.C., E.B.G. Feibert, L.D. Saunders, L.B. Jensen, K.S. Mohan, R. Sampangi, and H. Pappu. 2010. Iris Yellow Spot Virus Control Through Stress Reduction. Malheur County, Oregon and Idaho Onion Growers Annual Meeting. February 2, 2010. Ontario, OR.
- Shock, C.C., E.B.G. Feibert, L.D. Saunders, L.B. Jensen, K.S. Mohan, R. Sampangi, and H. Pappu. Onion Variety Trial Report 2009. Malheur County, Oregon and Idaho Onion Growers Annual Meeting. February 2, 2010. Ontario, OR
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- Shock, C.C., E.B.G. Feibert, L.D. Saunders, N. Shaw and R.S. Sampangi. 2012. Irrigation requirements for native wildflower seed production. p 139-160 In Shock C.C. (Ed.) Oregon State University Agricultural Experiment Station, Malheur Experiment Station Annual Report 2011, Department of Crop and Soil Science Ext/CrS 141.
- Shock, C.C., E.B.G. Feibert, L.D. Saunders, N. Shaw and R.S. Sampangi. 2012. Irrigation requirements for novel native wildflower seed production. p 161-170 In Shock C.C. (Ed.) Oregon State University Agricultural Experiment Station, Malheur Experiment Station Annual Report 2011, Department of Crop and Soil Science Ext/CrS 141.
- Shock, C.C., E.B.G. Feibert, L.D. Saunders, N. Shaw, and R. Sampangi. 2012. Irrigation requirements for intermountain west native plant seed production. Annual meeting of the Great Basin Native Plant Selection and Increase Project. Salt Lake City, Utah, 22 February.
- Shock, C.C., E.B.G. Feibert, L.D. Saunders. 2012. Onion bulb size response to plant population for four varieties under three irrigation systems. Annual Conference of the American Society for Horticultural Science, Miami, FL, August.
- Shock, CC and FX Wang. 2011. Soil water tension, a powerful measurement for productivity and stewardship. HortScience 46:178-185.
- Shock, CC. 2011. Malheur County Best Management Practices. Malheur Experiment Station, Oregon State University. <http://www.cropinfo.net/bestpractices/Malcountybmp.html> (Last access: January 3, 2011).

- Shock, M.P., C.C. Shock, E.B.G. Feibert, C.A. Parris, L.D. Saunders, R.K. Sampangi, N.L. Shaw, and T.K. Welch. 2012. Fernleaf biscuitroot, *Lomatium dissectum* (LODI), Sustainable Agriculture Techniques, Oregon State University, Department of Crop and Soil Science Ext/CrS 138. 6 p.
- Shock, M.P., C.C. Shock, E.B.G. Feibert, N.L. Shaw, L.D. Saunders, and R.K. Sampangi. 2012. Cultivation and irrigation of fernleaf biscuitroot (*Lomatium dissectum*) for Seed Production. *HortScience* 47(10):1525-1528.
- Shukla M.K. 2011. Introduction to soil hydrology. In: M.K. Shukla (Ed.) *Soil Hydrology, Land Use and Agriculture: Measurement and modeling*. CAB International, Wallingford, UK. 1-23
- Shukla, M.K. 2011 (Editor) 2011. *Soil Hydrology, Land Use and Agriculture: Measurement and Modeling*, CAB International, Wallingford, UK 13:978 1 845937973, p434
- Skaggs, K.E. and Suat Irmak. 2012. Analysis of microclimate data measured over grass and soybean canopy and their impacts on Penman-Monteith grass and alfalfa-reference evapotranspiration. *J. Irrigation and Drainage Engineering*, ASCE 138(2): 120-134.
- Smeal, D, KA Lombard, MM West, MK O'Neill, and RN Arnold. 2011. Low pressure drip irrigation for small plots and urban landscapes. *New Mex. St. Univ. Agric. Exp. Sta. Res. Rpt.* 773.
- Smeal, D. 2012. Improving irrigation efficiency. *New Mexico Organic Farming Conference*. February 17, 2012. Albuquerque, NM.
- Smeal, D., K. Lombard, M. O'Neill, and R. Arnold. 2010. Chile pepper production in Northwestern New Mexico as related to microirrigation. 20th International Pepper Conference. Las Cruces, NM September 12-14, 2010. Abstract pg. 31.
- Smeal, D., K.A. Lombard, M.K. O'Neill, and R.N. Arnold. 2010. Scheduling irrigations on drip-irrigated vegetable crops using climate-based coefficients and canopy measurements. August 2 – 5, 2010. Annual Conference of the American Society for Horticultural Science. Supplement to *HortScience* 45(8)216. Palm Desert, CA. <http://hortsci.ashspublications.org/content/vol45/issue8/> Abstract Number 216; page 264
- Smeal, D., K.A. Lombard, M.K. O'Neill, and R.N. Arnold. 2010. Scheduling irrigations on drip-irrigated vegetable crops using climate-based coefficients and canopy measurements. August 2 - 5, 2010. Annual Conference of the American Society for Horticultural Science. Supplement to *HortScience* 45(8)216. Palm Desert, CA. <http://hortsci.ashspublications.org/content/vol45/issue8/> Abstract Number 216; page 264
- Smeal, D., M.K. O'Neill, K.A. Lombard, and R.N. Arnold. 2009. Crop coefficients for drip-irrigated xeriscapes and urban vegetable gardens. Abstract and Oral Presentation. Paper No. 2840. *Innovations in Irrigation*, Irrigation Association Conference. December 2-4, 2009. San Antonio, Texas.
- Smeal, D., M.K. O'Neill, K.A. Lombard, and R.N. Arnold. 2010. Climate-based coefficients for scheduling irrigations in urban xeriscapes. December 5 - 8, 2010. 5th National Decennial Irrigation Conference. Sponsored jointly by ASABE and the Irrigation Association. Phoenix, AZ.
- Smeal, Daniel, Kevin Lombard, Michael O'Neill, and Rick Arnold. 2011. Microirrigation on the Colorado Plateau: research at NMSU's Agricultural Science Center, Farmington, NM. 11th Biennial Conference of Research on the Colorado Plateau. October 24-27, 2011. Flagstaff, AZ.
- Sokalska D.I., D.Z. Haman, A. Szewczuk, J. Sobota, D. Deren. 2009. Spatial Root Distribution of Mature Apple Trees Under Drip Irrigation System - *Agricultural Water Management* 96 (2009) 917-924.
- Sorensen, R.B., Breneman, T.B., and Lamb, M.C. 2010. Peanut Yield Response to Conservation Tillage, Winter Cover Crop, Peanut Cultivar, and Fungicide Applications. *Peanut Sci.* 37(1):44-51
- Sorensen, R.B., Nuti, R.C., and Lamb, M.C. 2010. Yield and Economics of Shallow Subsurface Drip Irrigation and Furrow Diking. *Crop Management*. Online. [Crop Management doi:10.1094/CM-2010-1220-01-RS](https://doi.org/10.1094/CM-2010-1220-01-RS)
- Stewart WL, Fulton AE, Krueger WH, Lampinen BD, Shackel KA. 2011. Regulated deficit irrigation reduces water use of almonds without affecting yield. *Cal Ag.* 65: 90-99.
- Stewart WL, Fulton AE, Krueger WH, Lampinen BD, Shackel KA. 2011. Regulated deficit irrigation reduces water use of almonds without affecting yield. *Cal Ag.* 65: 90-99.
- Van Arkel, Z. and A. Kaleita. 2012. Interpolating soil moisture patterns with inverse distance weighting based on physical characteristics. Poster presented at the 2012 Annual International Meeting of the ASABE, Dallas, TX.

Wang, FX, XX Wu, CC Shock, LY Chu, XX Gu, and X Xue. 2011. The effects of drip irrigation regimes and plastic mulch on potato tuber yield and quality in arid Northwestern China. *Field Crops Research*. 122:78-84.

## **Publications and Presentations for Objective 2**

### **Develop design, management and maintenance recommendations**

AbdelGadir, A.H., Fulton, J.P., Dougherty, M., Curtis, L.M., van Santen, E., Burmester, C.H., Harkins, H.D., and B.E. Norris. 2011. Subsurface drip irrigation placement and cotton irrigation water requirement in the Tennessee Valley. *Crop Management*, August 2011, doi:10.1094/CM-2011-0819-01-RS.

AbdelGadir, A.H., J.P. Fulton, M. Dougherty, L.M. Curtis, E. Santen, C.H. Burmester, H.D. Harkins, and B.E. Norris. 2011. Subsurface Drip Irrigation Placement and Cotton Irrigation Water Requirement in the Tennessee Valley. *Crop Management*. August 2011, doi:10.1094/CM-2011-0819-01-RS

Alam, M. 2009. Extensive discussion with producer from Plains Kansas about SDI pros and cons with particular reference to use of SDI for alfalfa hay and grass production, April 16.

Alam, M. 2009. KSU -Northwest Cotton Growers Co-Op Gin Field Day, September 15, 2009, Ron Lucas Farm, Moscow, KS

Alam, M., D. Rogers and F. R. Lamm. 2009. Poster presentation of In-Field Evaluation of Subsurface Drip Irrigation Systems in Kansas at SDI Technology Field Day, Colby Kansas, August 4, 2009.

Alam, M., D. Rogers and F. R. Lamm. 2009. Poster presentation of In-Field Evaluation of Subsurface Drip Irrigation Systems in Kansas at SDI Technology Field Day, Halfway Texas, August 25, 2009.

Alam, M., D. Rogers and F.R. Lamm. 2009. . Poster presentation of In-field evaluation of subsurface drip irrigation systems in Kansas at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.

Arbat, G., F. R. Lamm and A. A. Abou Kheira. 2009. Effect of emitter spacing on soil water redistribution, corn yield and water productivity under subsurface drip irrigation (SDI). ASABE paper no. 096578. Available from ASABE, St. Joseph, MI. 17 pp.

Arbat, G., F. R. Lamm, and A. A. Abou Kheira. 2009. Poster presentation of Effect of emitter spacing on corn at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.

Arbat, G., F. R. Lamm, and A. A. Abou Kheira. 2009. Poster presentation of Effect of emitter spacing on corn at SDI Technology Field Day, Colby Kansas, August 4, 2009.

Arbat, G., F. R. Lamm, and A. A. Abou Kheira. 2009. Poster presentation of Effect of emitter spacing on corn production at 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009.

Arbat, G., F. R. Lamm, and A. A. Abou Kheira. 2009. Poster presentation of Effect of emitter spacing on corn production at SDI Technology Field Day, Halfway Texas, August 25, 2009.

Arbat, G., F. R. Lamm, and A. A. Abou Kheira. 2010. Subsurface drip irrigation emitter spacing effects on soil water redistribution, corn yield and water productivity. *Applied Engr. in Agric.* 26(3):391-399.

Bordovsky, J.P., A.M. Cranmer, P.D. Colaizzi, F.R. Lamm, S.R. Evett, and T. A. Howell. 2012. Investigating strategies to improve crop germination when using SDI. In: Proc. 24th annual Central Plains Irrigation Conference Feb. 21-22, 2012, Colby, Kansas. Available from CPIA, 760 N. Thompson, Colby, Kansas. pp. 112-127.

Colaizzi, P. 2009. Discussed irrigation system research with Amarillo Chamber of Commerce Agricultural Committee, field tour at CPRL on August 26, 2009.

Colaizzi, P. 2009. Discussion of SDI pros and cons for buffalo grass with homeowner at Bushland, Texas, April 17

Colaizzi, P. 2009. Field tour of irrigation research at CPRL with Soil and Water Conservation class taught by Dr. B. A. Stewart, West Texas A&M University, 13 undergrads (all US citizens), 8 grads (3 US, 4 India, 1 Zimbabwe), April 29.

Colaizzi, P. 2010 Hosted representatives from Cotton, Inc. and Budline Productions on tour of the Texas Panhandle to produce a documentary on cotton production in West Texas, and to assess water, irrigation, and renewable energy research, and to identify research gaps and funding needs for irrigated and dryland cotton production. The tour included visits with three local cotton producers and tour of cotton research and renewable energy at CPRL, July 29, 2010.

- Colaizzi, P. 2010. Field tour and meetings of the Calera Workshop in cooperation with Mexico, Texas Water Resources Institute, and University of Georgia and ARS-El Reno at Bushland on July 7-9, 2010.
- Colaizzi, P. Field tour and meetings for Australian producers, August 18, 2010.
- Colaizzi, P. and S.R. Evett. 2009. Tour of drip irrigation research in conjunction with the "Wheat Issues and Challenges: Small Grain Field Day" at the USDA-ARS Conservation & Production Research Laboratory, Bushland, Texas, May 21, 2009.
- Colaizzi, P. and S.R. Evett. 2009. Tour of irrigation research and facilities at the USDA-ARS Conservation & Production Research Laboratory, Bushland Texas, was given for members of the Texas Consortium for Irrigation Research and Education (CIRE). Bushland, Texas. Research involving SDI management and comparison of irrigation methods was discussed, May 21-2009.
- Colaizzi, P. and S.R. Evett. 2009. Tour of irrigation research at the USDA-ARS Conservation & Production Research Laboratory, Bushland, Texas, for 22 extension agents from NW and SW Oklahoma. Research comparing subsurface drip irrigation to LEPA and LESA spray irrigation application methods was discussed.
- Colaizzi, P.D., Baumhardt, R. L., Evett, S.R., Howell, T.A. 2009. Presentation: Cotton Production with Spray, LEPA, and SDI. KSU – Northwest Cotton Growers Co-Op Gin Field Day, September 15, 2009, Ron Lucas Farm, Moscow, KS.
- Colaizzi, P.D., Evett, S.R., Howell, T.A. 2009. Poster: Comparison of SDI with Alternative Irrigation Methods. SDI Field Day, August 25, 2009, Texas AgriLife Research and Extension Farm, Halfway, TX.
- Colaizzi, P.D., Evett, S.R., Howell, T.A. 2009. Poster: Comparison of SDI with Alternative Irrigation Methods. SDI Field Day, August 4, 2009, KSU Research and Extension Center, Colby, KS.
- Colaizzi, P.D., Evett, S.R., Howell, T.A. 2009. Poster: Corn Production with Alternative SDI Designs. SDI Field Day, August 25, 2009, Texas AgriLife Research and Extension Farm, Halfway, TX.
- Colaizzi, P.D., Evett, S.R., Howell, T.A. 2012. Subsurface drip, LEPA, and spray irrigation. In *Wheat and Water Issues*, Proc. USDA-ARS and Texas A&M Wheat Field Day, Bushland, TX, May 24, 2012, 37-40.
- Colaizzi, P.D., Evett, S.R., Howell, T.A., R. L. Baumhardt. 2010. Crop production comparison with spray, LEPA, and subsurface drip irrigation in the Texas High Plains. In: *Proceedings of the 5th Decennial National Irrigation Symposium*, December 5-8, 2010, Phoenix, Arizona. Paper No: IRR10-9704.2010 CDROM.
- Colaizzi, PD, SR Evett, and TA Howell. 2011. Corn production with spray, LEPA, and SDI. In *Proc. 23rd Annual Central Plains Irrigation Conference*, Burlington, CO., February 22-23, 2011. Available from CPIA, 760 N. Thompson, Colby, Kansas.
- Enciso-Medina, J., W. L. Multer, and F. R. Lamm. 2009. Impact of management on the life expectancy of drip systems. In: *Proc. 2009 Irrigation Association Technical Conference*, San Antonio, Texas, December 2-5, 2009. Available from the IA, Falls Church, VA. 11 pp.
- Enciso-Medina, J., W. L. Multer, and F. R. Lamm. 2011. Management, maintenance, and water quality effects on the long-term performance of subsurface drip irrigation systems. *Applied Engr. in Agric.* 27(6):969-978.
- Enciso-Medina, J., W. L. Multer, and F. R. Lamm. 2009. Impact of Management on the Life Expectancy of Drip Systems. In: *Proc. 2009 Irrigation Association Technical Conference*, San Antonio, Texas, December 2-5, 2009. Available from the IA, Falls Church, VA. 11 pp.
- Enciso-Medina, J., W. Multer and F. R. Lamm. 2009. Evaluation of old subsurface drip irrigation systems in Texas. ASABE paper no. 095725. Available from ASABE, St. Joseph, MI. 8 pp.
- Harbuck, T.L. J.P. Fulton, M. Dougherty, D. Eakes, S. Taylor, J. Sibley, and L. Curtis. 2009. In-field evaluation of pressure-compensated subsurface drip irrigation. ASABE Paper No. 097144. ASABE Annual International Conference, Reno, NV, June 21 !! June 24.
- Harbuck, T.L., J. P. Fulton, M. Dougherty, S. T. Taylor, D.J. Eakes, and J.L. Sibley. 2011. In-Field Application Uniformity Evaluation of Pressure-Compensating Subsurface-Drip Irrigation Products. *J. Applied Engineering in Agriculture* 27(1): 43-50.
- Harmoney, K. R. F. R. Lamm, A. A. Aboukheira, and S. K. Johnson. 2012. Reducing water inputs with subsurface drip irrigation may improve alfalfa nutritive value. Online. *Forage and Grazinglands* doi:10.1094/FG-2013-117-01-RS. 8 pp.

- He, J., Dougherty, M., Shaw, J., Fulton, J., and F. Arriaga. 2011. Hydraulic management of a soil moisture controlled SDI wastewater dispersal system in an Alabama Black Belt soil. *J. Environmental Management*, doi: 10.1016/j.jenvman.2011.05.009.
- Kandalous M.M., T. Kamai, J.A. Vrugt, J. Simunek, B.R. Hanson, and J.W. Hopmans. 2012. Evaluation of subsurface drip irrigation design and management parameters for alfalfa. *Agric. Water Management*. Doi:10.1016/j.agwat.2012.02.009
- Lamm F. R. and D. H. Rogers. 2012. Hydraulic considerations for SDI. In: Proc. 24th annual Central Plains Irrigation Conference, Colby, Kansas, Feb. 21-22, 2012. Available from CPIA, 760 N.Thompson, Colby, KS. pp. 150-158.
- Lamm F. R. and D. H. Rogers. 2012. SDI, the basics of successful systems. In: Proc. 24th annual Central Plains Irrigation Conference, Colby, Kansas, Feb. 21-22, 2012. Available from CPIA, 760 N.Thompson, Colby, KS. pp. 133-149.
- Lamm, F. R. 2009. Oral and poster presentation of Corn management with SDI to save water resources at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.
- Lamm, F. R. 2009. Oral and poster presentation of Corn management with SDI to save water resources at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Lamm, F. R. 2009. Poster presentation of Comparison of SDI and simulated LEPA sprinkler irrigation for corn at 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009.
- Lamm, F. R. 2009. Poster presentation of Comparison of SDI and simulated LEPA sprinkler irrigation for corn at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.
- Lamm, F. R. 2009. Poster presentation of Comparison of SDI and simulated LEPA sprinkler irrigation for corn at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Lamm, F. R. 2009. Poster presentation of Comparison of SDI and simulated LEPA sprinkler irrigation for corn at SDI Technology Field Day, Halfway Texas, August 25, 2009.
- Lamm, F. R. 2009. Poster presentation of Corn management with SDI to save water resources at 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009.
- Lamm, F. R. 2009. Poster presentation of Corn management with SDI to save water resources at SDI Technology Field Day, Halfway Texas, August 25, 2009.
- Lamm, F. R. 2010. Poster presentation of Corn management with SDI to save water resources at 2010 Central Plains Irrigation Conference, February 23-24, Kearney NE.
- Lamm, F. R. 2011. Poster presentation of Corn management with SDI to save water resources at 2011 Central Plains Irrigation Conference, February 22-23, Burlington, Colorado.
- Lamm, F. R. 2012. Oral and poster presentation of Corn management with SDI to save water resources at Central Plains Irrigation Conference, Colby, Kansas, February, 21-22, 2012.
- Lamm, F. R. 2012. Poster presentation of Comparison of SDI and simulated LEPA sprinkler irrigation for corn at Central Plains Irrigation Conference, Colby, Kansas, February, 21-22, 2012.
- Lamm, F. R. Software to determine optimum planned corn area and plant population for SDI was updated and released to the public, January, 2010 [http://www.oznet.ksu.edu/sdi/Software/COpt\\_SDI10.xls](http://www.oznet.ksu.edu/sdi/Software/COpt_SDI10.xls)
- Lamm, F. R. 2009. Poster presentation of Slope considerations for SDI at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.
- Lamm, F. R. 2009. Poster presentation of Slope considerations for SDI at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Lamm, F. R. 2009. Poster presentation of Slope considerations for SDI at SDI Technology Field Day, Halfway Texas, August 25, 2009.
- Lamm, F. R. 2009. A look at twenty years of SDI research in Kansas. Presented at the 26th Annual Water and the Future of Kansas Conf., Topeka, Kansas, March 26, 2009.
- Lamm, F. R. 2009. Discussion and review of SDI economics and other SDI topics at KSU-NWREC, Colby, Kansas with Jan Windscheffel, Netafim Irrigation, January 30, 2009.

Lamm, F. R. 2009. Discussion of SDI and tour of facilities for 4 employees of 21st Century Equipment LLC., September 24, 2009 at Colby Kansas.

Lamm, F. R. 2009. Discussion of SDI and tour of facilities for Charles Johnson, National Editor for Farm Journal, May 27, 2009.

Lamm, F. R. 2009. Discussion of SDI with IA Drip/Micro Common Interest Group, San Antonio, Texas, December 4, 2009

Lamm, F. R. 2009. Managing the challenges of subsurface drip irrigation. In: Proc. 2009 Irrigation Association Tech. Conf., San Antonio, Texas, December 2-5, 2009. Available from the IA, Falls Church, VA. 23 pp.

Lamm, F. R. 2009. Poster presentation of SDI Pros and Cons at 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009.

Lamm, F. R. 2009. Poster presentation of SDI Pros and Cons at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.

Lamm, F. R. 2009. Poster presentation of SDI Pros and Cons at SDI Technology Field Day, Colby Kansas, August 4, 2009.

Lamm, F. R. 2009. Poster presentation of SDI Pros and Cons at SDI Technology Field Day, Halfway Texas, August 25, 2009.

Lamm, F. R. 2009. Poster presentation of The Ogallala and the potential for SDI at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.

Lamm, F. R. 2009. Poster presentation of The Ogallala and the potential for SDI at SDI Technology Field Day, Halfway Texas, August 25, 2009.

Lamm, F. R. 2009. Poster presentation of The Ogallala and the potential for SDI, at 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009.

Lamm, F. R. 2009. Poster presentation of The Ogallala and the potential for SDI, at SDI Technology Field Day, Colby Kansas, August 4, 2009.

Lamm, F. R. 2009. Provided approximately 50 CD-ROM Disks with SDI information to Texas AgriLife for Field Day concerning SDI held at Chillicothe, Texas, September 3, 2009.

Lamm, F. R. 2009. Software to compare the economics of conversion to center pivot sprinkler irrigation or subsurface drip irrigation from furrow irrigation for corn production was updated and released to the public, January, 2009 [http://www.oznet.ksu.edu/sdi/Software/CP\\_SDI09.xls](http://www.oznet.ksu.edu/sdi/Software/CP_SDI09.xls)

Lamm, F. R. 2009. Software to determine optimum planned corn area and plant population for SDI was updated and released to the public, January, 2009 [http://www.oznet.ksu.edu/sdi/Software/COpt\\_SDI09.xls](http://www.oznet.ksu.edu/sdi/Software/COpt_SDI09.xls)

Lamm, F. R. 2009. Poster presentation of What is SDI? at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.

Lamm, F. R. 2009. Poster presentation of What is SDI? at SDI Technology Field Day, Colby Kansas, August 4, 2009.

Lamm, F. R. 2012. Poster presentation of SDI Pros and Cons at Central Plains Irrigation Conference, Colby, Kansas, February, 21-22, 2012.

Lamm, F. R. 2012. Poster presentation of The Ogallala and the potential for SDI at Central Plains Irrigation Conference, Colby, Kansas, February, 21-22, 2012.

Lamm, F. R. 2012. Poster presentation of What is SDI? at Central Plains Irrigation Conference, Colby, Kansas, February, 21-22, 2012.

Lamm, F. R. 2012. Video poster presentation of Managing the challenges of subsurface drip irrigation in the Great Plains region at Central Plains Irrigation Conference, Colby, Kansas, February, 21-22, 2012.

Lamm, F. R. 2012. Tour of SDI facilities and discussion of SDI research for David Mack and Ami Gips, Netafim Irrigation, February 23, 2012.

Lamm, F. R. Discussion of SDI research with Bobby Bassi, Syngenta Chemical, August 2, 2010 at KSU-NWREC, Colby Kansas.

Lamm, F. R. Discussion of SDI research with Syngenta staff, Greensboro, North Carolina, December 2, 2010.

Lamm, F. R. Discussion of SDI technology with Farm Bureau Master's program, September 30, 2010 at KSU-NWREC, Colby Kansas.

- Lamm, F. R. Software to compare the economics of conversion to center pivot sprinkler irrigation or subsurface drip irrigation from furrow irrigation for corn production was updated and released to the public, January, 2010.  
[http://www.oznet.ksu.edu/sdi/Software/CP\\_SDI10.xls](http://www.oznet.ksu.edu/sdi/Software/CP_SDI10.xls)
- Lamm, F. R. 2009. A look at twenty years of SDI research in Kansas. In: Proc. Central Plains Irrigation Conf., Colby, KS., Feb. 24-25, 2009. Available from CPIA, 760 N.Thompson, Colby, KS. pp. 152-176.
- Lamm, F. R. 2009. Managing the challenges of subsurface drip irrigation. In: Proc. 2009 Irrigation Association Tech. Conf., San Antonio, Texas, December 2-5, 2009. Available from the IA, Falls Church, VA. 23 pp.
- Lamm, F. R. 2009. Unique challenges with subsurface drip irrigation. ASABE paper no. 095927. Available from ASABE, St. Joseph, MI. 25 pp.
- Lamm, F. R. 2011. Oral powerpoint presentation of Twenty-Two Years of Progress with SDI in Kansas at Sino-US Workshop on Microirrigation, Beijing China, April 23, 2011
- Lamm, F. R. 2011. Oral powerpoint presentation of Unique Challenges with Subsurface Drip Irrigation at Sino-US Workshop on Microirrigation, Beijing China, April 23, 2011
- Lamm, F. R. 2011. Oral powerpoint presentation of Some Design and Management Thoughts for SDI Systems to Inner Mongolia Jin Tu Di Water-Saving Engineering Equipment Company near Wengniute, Chifeng, China, April 26, 2011
- Lamm, F. R. 2012. Oral powerpoint presentation of The potential for conserving water with SDI for corn production at the Governor's Water Conference, Manhattan, Kansas, October 30-31, 2012.
- Lamm, F. R. 2012. Tour of SDI facilities and discussion for Dow group (Al Green and Cecelia Topher, August 14, 2012.
- Lamm, F. R. 2012. Tour of SDI facilities and discussion for Monsanto TDR group, September 19, 2012.
- Lamm, F. R. 2012. Tour of station and SDI facilities and discussion for Iryne McDonald and agronomy class from Colby Community College, October 3, 2012
- Lamm, F. R. and A. A. Abou Kheira. 2009. Oral presentation of SDI research to Syngenta staff, Greensboro, North Carolina, December 8, 2009.
- Lamm, F. R. and A. A. Aboukheira. 2012. Effect of late season water stress on corn in northwest Kansas. ASABE paper no. 121337206. Available from ASABE, St. Joseph, MI. 10 pp.
- Lamm, F. R. and D. H. Rogers. 2009. Poster presentation of How can I use records of pressure and flow measurements to diagnose SDI system problems? at 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009.
- Lamm, F. R. and D. H. Rogers. 2009. Poster presentation of How can I use records of pressure and flow measurements to diagnose SDI system problems? at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.
- Lamm, F. R. and D. H. Rogers. 2009. Poster presentation of How can I use records of pressure and flow measurements to diagnose SDI system problems? at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Lamm, F. R. and D. H. Rogers. 2009. Poster presentation of How can I use records of pressure and flow measurements to diagnose SDI system problems? at SDI Technology Field Day, Halfway Texas, August 25, 2009.
- Lamm, F. R. and D. H. Rogers. 2009. Poster presentation of Minimal system requirements for SDI at 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009.
- Lamm, F. R. and D. H. Rogers. 2009. Poster presentation of Minimal system requirements for SDI at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.
- Lamm, F. R. and D. H. Rogers. 2009. Poster presentation of Minimal system requirements for SDI at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Lamm, F. R. and D. H. Rogers. 2009. Poster presentation of Minimal system requirements for SDI at SDI Technology Field Day, Halfway Texas, August 25, 2009.
- Lamm, F. R. and D. H. Rogers. 2009. Poster presentation of Steps to a successful SDI system at 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009.
- Lamm, F. R. and D. H. Rogers. 2009. Poster presentation of Steps to a successful SDI system at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.



- Lamm, F. R. and D. H. Rogers. 2009. Poster presentation of Steps to a successful SDI system at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Lamm, F. R. and D. H. Rogers. 2009. Poster presentation of Steps to a successful SDI system at SDI Technology Field Day, Halfway Texas, August 25, 2009.
- Lamm, F. R. and D. H. Rogers. 2010. Poster presentation of Minimal system requirements for SDI at 2010 Central Plains Irrigation Conference, February 23-24, Kearney NE.
- Lamm, F. R. and D. H. Rogers. 2011. Poster presentation of How can I use records of pressure and flow measurements to diagnose SDI system problems? at 2011 Central Plains Irrigation Conference, February 22-23, Burlington, Colorado.
- Lamm, F. R. and D. H. Rogers. 2011. Poster presentation of Minimal system requirements for SDI at 2011 Central Plains Irrigation Conference, February 22-23, Burlington, Colorado.
- Lamm, F. R. and D. H. Rogers. 2011. Poster presentation of Steps to a successful SDI system at 2011 Central Plains Irrigation Conference, February 22-23, Burlington, Colorado.
- Lamm, F. R. and D. H. Rogers. 2012. Poster presentation of How can I use records of pressure and flow measurements to diagnose SDI system problems? at Central Plains Irrigation Conference, Colby, Kansas, February, 21-22, 2012.
- Lamm, F. R. and D. H. Rogers. 2012. Poster presentation of Minimal system requirements for SDI at Central Plains Irrigation Conference, Colby, Kansas, February, 21-22, 2012.
- Lamm, F. R. and D. H. Rogers. 2012. Poster presentation of Steps to a successful SDI system at Central Plains Irrigation Conference, Colby, Kansas, February, 21-22, 2012.
- Lamm, F. R. and D.H. Rogers. 2012. Hydraulic consideration for SDI systems. In: Proc. 2012 Irrigation Association Tech. Conf., Orlando, Florida, November 4-5, 2012. Available from the IA, Falls Church, VA. CD-Rom, 9 pp.
- Lamm, F. R. and G. A. Clark. 2009. Poster presentation of Filtration for SDI systems at 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009.
- Lamm, F. R. and G. A. Clark. 2009. Poster presentation of Filtration for SDI systems at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.
- Lamm, F. R. and G. A. Clark. 2009. Poster presentation of Filtration for SDI systems at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Lamm, F. R. and G. A. Clark. 2009. Poster presentation of Filtration for SDI systems at SDI Technology Field Day, Halfway Texas, August 25, 2009.
- Lamm, F. R. and G. A. Clark. 2012. Poster presentation of Filtration for SDI systems at Central Plains Irrigation Conference, Colby, Kansas, February, 21-22, 2012.
- Lamm, F. R. and R. M. Aiken. 2009. Poster presentation of SDI with Temperature-Time Threshold (TTT) at 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009.
- Lamm, F. R., Approximately 15 hours of seminars/teaching to MS and PhD level engineering students at China Agricultural University, Beijing, China, April 16-20, 2011. Topics were microirrigation, sprinkler irrigation, water management, experimental design, creative thinking, and philosophies of technical writing in US journals.
- Lamm, F. R., 2009. Distribution of remaining 2008 SDI and the Great Plains CD-Rom at the Monsanto Sustainability Conference, Denver, Colorado, February 11-13, 2009. (Approximately 50 CDs)
- Lamm, F. R., 2009. Distribution of SDI and the Great Plains CD-Rom at Annual Ogallala Aquifer Project Meeting, March 10-12, 2009, Garden City, Kansas.
- Lamm, F. R., 2009. Distribution of SDI and the Great Plains CD-Rom to Central Plains Irrigation Conference, February 24-25, 2009. (Approximately 150 CDs)
- Lamm, F. R., 2009. SDI facilities tour and discussion at KSU-NWREC, Colby, Kansas for Nir Aloni, Plastro Irrigation, Israel, February 25-26, 2009,
- Lamm, F. R., A. A. Abou Kheira, and T. P. Trooien. 2010. Sunflower, soybean, and grain sorghum crop production as affected by dripline depth. *Applied Engr. in Agric.* 26(5):873-882.

- Lamm, F. R., D. H. Rogers, M. Alam, D. M. O'Brien, and T. P. Trooien. 2009. Summary of twenty years of Kansas SDI research. In: Proc. 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009. Available from the IA, Falls Church, VA. 24 pp.
- Lamm, F. R., D. H. Rogers, M. Alam, D. M. OBrien, and T. P. Trooien. 2009. Summary of Twenty years of Kansas SDI Research. In: Proc. 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009. Available from the IA, Falls Church, VA. 24 pp.
- Lamm, F. R., D. H. Rogers, M. Alam, D. M. OBrien, and T. P. Trooien. 2009. Twenty years of progress with SDI in Kansas. ASABE paper no. 095923. Available from ASABE, St. Joseph, MI. 23 pp.
- Lamm, F. R., D. H. Rogers, M. Alam, D. M. OBrien, and T. P. Trooien. 2010 Twenty-One Years of SDI Research in Kansas. In: Proc. Central Plains Irrigation Conference, Kearney, NE., Feb. 23-24, 2010. Available from CPIA, 760 N.Thompson, Colby, KS. pp. 73-96.
- Lamm, F. R., D. M. O'Brien, D. H. Rogers, and T. J. Dumler. 2009. Using the K-State center pivot sprinkler and SDI economic comparison spreadsheet – 2009. Presented at the 26th Annual Water and the Future of Kansas Conf., Topeka, Kansas, March 26, 2009.
- Lamm, F. R., D. M. O'Brien, D. H. Rogers, and T.J. Dumler. 2012. Using the K-State center pivot sprinkler and SDI economic comparison spreadsheet - 2012. In: Proc. 24th annual Central Plains Irrigation Conference, Colby, Kansas, Feb. 21-22, 2012. Available from CPIA, 760 N.Thompson, Colby, KS. pp. 159-169.
- Lamm, F. R., D. M. O'Brien, D.H. Rogers, and T. J. Dumler. 2012. Comparison of SDI and center pivot sprinkler economics. In: Proc. 2012 Irrigation Association Tech. Conf., Orlando, Florida, November 4-5, 2012. Available from the IA, Falls Church, VA. CD-Rom,10 pp.
- Lamm, F. R., D. M. OBrien, D. H. Rogers, and T. J. Dumler. 2009. Using the K-State center pivot sprinkler and SDI economic comparison spreadsheet !! 2009. In: Proc. Central Plains Irrigation Conf., Colby, KS., Feb. 24-25, 2009. Available from CPIA, 760 N.Thompson, Colby, KS. pp. 177-187.
- Lamm, F. R., J. P. Bordovsky, L. J. Schwankl, G. L. Grabow, J. Enciso-Medina, R. T. Peters, P. D. Colaizzi, T. P. Trooien, and D. O. Porter. 2010. Subsurface drip irrigation: Status of the technology in 2010. In: Proc. 5th National Decennial Irrigation Conf., ASABE and the Irrigation Association, Phoenix, Arizona, December 5-8. 14 pp.
- Lamm, F. R., K. Harmony, S. Johnson, and M. Alam. 2009. Poster presentation of Alfalfa production with SDI at 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009.
- Lamm, F. R., K. Harmony, S. Johnson, and M. Alam. 2009. Poster presentation of Alfalfa production with SDI at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.
- Lamm, F. R., K. Harmony, S. Johnson, and M. Alam. 2009. Poster presentation of Alfalfa production with SDI at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Lamm, F. R., K. Harmony, S. Johnson, and M. Alam. 2009. Poster presentation of Alfalfa production with SDI at SDI Technology Field Day, Halfway Texas, August 25, 2009.
- Lamm, F. R., K. R. Harmony, A. A. Aboukheira, and S. K. Johnson. 2012. Alfalfa production with subsurface drip irrigation in the Central Great Plains. Trans. ASABE 55(4):1203-1212.
- Lamm, F. R., L. R. Stone, and D. M. O'Brien. 2009. Poster presentation of Spacing of driplines for corn production at 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009.
- Lamm, F. R., L. R. Stone, and D. M. O'Brien. 2009. Poster presentation of Spacing of driplines for corn production at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.
- Lamm, F. R., L. R. Stone, and D. M. O'Brien. 2009. Poster presentation of Spacing of driplines for corn production at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Lamm, F. R., L. R. Stone, and D. M. O'Brien. 2009. Poster presentation of Spacing of driplines for corn production at SDI Technology Field Day, Halfway Texas, August 25, 2009.
- Lamm, F. R., P. D. Colaizzi, J. P. Bordovsky, T. P. Trooien, J. Enciso-Medina, D. O. Porter, D. H. Rogers, and D. M. OBrien. 2010. Can Subsurface Drip Irrigation (SDI) be a Competitive Irrigation System in the Great Plains Region for Commodity Crops? In: Proc. 5th National Decennial Irrigation Conf., ASABE and the Irrigation Association, Phoenix, Arizona, December 5-8. 15 pp.

- Lamm, F.R. 2009. Discussion of SDI and tour of facilities for Dean and Associate Deans of KSU College of Agriculture, October 6, 2009 at Colby Kansas.
- Lamm, F.R. 2009. Discussion of SDI and tour of facilities for Farm Bureau's Master Program, October 9, 2009 at Colby Kansas.
- Lamm, F.R. 2009. Discussion of SDI and tour of facilities for Julio Santiago, Jain Irrigation, October 29, 2009 at Colby Kansas.
- Lamm, F.R. 2009. Discussion of SDI and tour of KSU-NWREC SDI facilities at Colby, Kansas with Lance Goldsmith and Matt Newsom, Eurodrip USA, Inc., April 23.
- Lamm, F.R. 2009. LCD-TV JPEG presentation of Historical Photos from KSU Northwest Research-Extension Center Subsurface Drip Irrigation Installations from 1989 and 1990 at Annual Ogallala Aquifer Project Meeting, March 10-12, 2009, Garden City, Kansas.
- Lamm, F.R. 2009. LCD-TV JPEG presentation of Historical Photos from KSU Northwest Research-Extension Center Subsurface Drip Irrigation Installations from 1989 and 1990 at Central Plains Irrigation Conference, February 24-25, 2009, Colby, Kansas.
- Lamm, F.R. 2009. LCD-TV JPEG presentation of Historical Photos from KSU Northwest Research-Extension Center Subsurface Drip Irrigation Installations from 1989 and 1990 at the 26th Annual Water and the Future of Kansas conference, Topeka, Kansas, March 26, 2009.
- Lamm, F.R. 2009. LCD-TV JPEG presentation of sensitivity of center pivot sprinkler and SDI economic comparisons at Annual Ogallala Aquifer Project Meeting, March 10-12, 2009, Garden City, Kansas.
- Lamm, F.R. 2009. LCD-TV JPEG presentation of Sensitivity of center pivot sprinkler and SDI economic comparisons at the 26th Annual Water and the Future of Kansas conference, Topeka, Kansas, March 26, 2009.
- Lamm, F.R. 2009. Poster presentation of SDI in the Great Plains at Annual Ogallala Aquifer Project Meeting, March 10-12, 2009, Garden City, Kansas.
- Lamm, F.R. 2009. Poster presentation of SDI in the Great Plains at at the 26th Annual Water and the Future of Kansas conference, Topeka, Kansas, March 26, 2009.
- Lamm, F.R. 2009. Poster presentation of SDI in the Great Plains at Central Plains Irrigation Conference, February 24-25, 2009, Colby, Kansas.
- Lamm, F.R. 2009. Poster presentation of Software for Planning Corn Production with SDI at Central Plains Irrigation Conference, February 24-25, 2009, Colby, Kansas.
- Lamm, F.R. 2010. Twenty-One Years of SDI Research in Kansas. Presentation at the California Irrigation Institute annual conference, February 1-2, Sacramento, California.
- Lamm, F.R. 2012 Presentation to Colby Community College Agricultural Seminar class, January 31, 2012 at KSU-NWREC. Topic was agricultural research centers and SDI. 1 hour presentation.
- Lamm, F.R., J. P. Bordovsky, L. J. Schwankl, G. L. Grabow, J. Enciso-Medina, R. T. Peters, P. D. Colaizzi, T. P. Trooien, and D. O, Porter. 2012. Subsurface drip irrigation: Status of the technology in 2010. *Trans. ASABE* 55(2): 483-491.
- Lamm, FR, DH Rogers, M Alam, DM O'Brien, and TP Trooien. 2011. Twenty-two years of SDI research in Kansas. In: *Proc. 23rd annual Central Plains Irrigation Conference, Burlington, Colorado, Feb. 22-23, 2011. Available from CPIA, 760 N.Thompson, Colby, KS. pp. 68-92.*
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- Lamm, F. R. and D. M. O'Brien. 2009. Computer and poster presentation of Can We Make it Work and Can We Make it Pay? at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.

- Lamm, F. R. and D. M. O'Brien. 2009. Computer and poster presentation of Can We Make it Work and Can We Make it Pay? at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Lamm, F. R. and D. M. O'Brien. 2009. Computer and poster presentation of Can We Make it Work and Can We Make it Pay? at SDI Technology Field Day, Halfway Texas, August 25, 2009.
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- Porter, D. 2009. Drip irrigation and cotton turn row meetings set for Plainview-area farmers. *Plainview Daily Herald*. August 22, 2009
- Porter, D. 2009. KFYO Radio with Jim Stewart. Live talk radio interview during the noon ag program with Jim Stewart. Discussed SDI irrigation, water conservation and promoted the SDI Field Days, August 10, 2009.
- Porter, D. 2009. SDI field day slated Aug. 25. *Southwest Farm Press*. August 18, 2009.
- Porter, D. 2009. Subsurface drip irrigation field day set for Aug. 25 at Halfway. *The Cross Section*. Volume 55—No. 7. July 2009. High Plains Underground Water Conservation District No. 1, Lubbock
- Porter, D. 2009. Subsurface Drip Irrigation Technology Field Day. *The Cross Section*. Volume 55—No. 9 September 2009. High Plains Underground Water Conservation District No. 1, Lubbock TX
- Porter, Dana. 2009. SDI field day slated Aug. 25. *Southwest Farm Press*. August 18, 2009. Accessed Monday, 08/18/09 at: <http://southwestfarmpress.com/irrigation/subsurface-drip-irrigation-0818/>.
- Prestwich, C. 2009. Presentation of Drip Design and Maintenance to USDA-NRCS personnel, Kingman, Arizona, October 13-15, 2009.
- Prestwich, C. 2010. Presentation of Drip Design and Maintenance to USDA-NRCS and Soil Conservation District personnel, The Dalles, Oregon, April 21-22, 2010.
- Prestwich, C. 2010. Presentation of Drip Design and Maintenance to USDA-NRCS personnel, Davis, California, Oklahoma, , May 4-5, 2010.
- Prestwich, C. 2010. Presentation of Drip Design and Maintenance to USDA-NRCS personnel, Stillwater, Oklahoma, November 17-18, 2010.
- Prestwich, C. 2010. Presentation of Drip Design to USDA-NRCS personnel, Ephrata, Washington, March 13, 2010.
- Prestwich, C. 2010. Presentation of Drip Design webinar to USDA-NRCS and Soil Conservation District personnel in all 50 states, May 4-5, 2010.
- Prestwich, C. 2011. Presentation of Drip Design and Maintenance to USDA-NRCS and Soil Conservation District personnel, Fort Morgan, Colorado, October 25-27, 2011.
- Prestwich, C. 2011. Presentation of Drip Design and Maintenance to USDA-NRCS personnel, St. George, Utah, January 26-27-2011.
- Prestwich, C. 2012. Presentation of Drip Design and Maintenance to USDA-NRCS and Extension personnel, Conway, Arkansas, May 22-23, 2012.
- Prestwich, C. 2012. Presentation of Drip Design and Maintenance to USDA-NRCS personnel, Bangor, Maine, March 20-22, 2012.
- Prestwich, C. 2012. Presentation of Drip Design and Maintenance to USDA-NRCS personnel, Boise, Idaho, April 24-26, 2012.

- Prestwich, C. 2012. Presentation of NRCS Drip Design Tool as Irrigation Association Seminar, Orlando Florida, Nov. 4, 2012.
- Puig-Bargués, J., F. R. Lamm, T. P. Trooien and G. A. Clark. 2009. Dripline flushing velocities for SDI. ASABE paper no. 096457. Available from ASABE, St. Joseph, MI. 17 pp.
- Puig-Bargués, J., F. R. Lamm, T. P. Trooien, and G. A. Clark. 2010. Effect of dripline flushing on subsurface drip irrigation systems. *Trans ASABE* 53(1): 147-155.
- Puig-Bargués, J., G. Arbat, M. Elbana, M. Duran-Ros, J. Barragán, F. Ramírez de Cartagena, and F. R. Lamm. 2010. Effect of flushing frequency on emitter clogging in microirrigation with effluents. *Agric. Water Manage.* 97(6) 883-891.
- Rivera, Luis. 2010. Establishment of Forage legumes and forage grasses using sub-surface irrigation under the semiarid conditions of Southern Puerto Rico . Poster presented at the celebration of the Century Anniversary of Puerto Rico Agricultural Experiment Station. Juana Díaz Agricultural Research Station, University of Puerto Rico. May 10, Juana Díaz, Puerto Rico .
- Rivera, Luis. 2012 Field Day - Subsurface irrigation experiments at the Agricultural Experiment Station of Juana Díaz. Open House – Celebration of the Century Anniversary of Agricultural Experiment Station. Juana Diaz Research Station, University of Puerto Rico . May 10, 2010.
- Rogers, D. 2010 As part of their training, the KELP (Kansas Environmental Leadership Program) toured an SDI field near Garden City on May 19. Kent Shaw, MIL program coordinator, conducted the tour, along with the producer.
- Rogers, D. 2010. Presentation to KSU ATM class on irrigation systems which included a review of SDI systems. October 18.
- Rogers, D. H. and F. R. Lamm. 2009. Keys to successful adoption of SDI: Minimizing problems and ensuring longevity. Presented at the 26th Annual Water and the Future of Kansas Conf, Topeka, Kansas, March 26, 2009.
- Rogers, D. H. and F. R. Lamm. 2009. Keys to successful adoption of SDI: Minimizing problems and ensuring longevity. In: *Proc. Central Plains Irrigation Conf.*, Colby, KS., Feb. 24-25, 2009. Available from CPIA, 760 N.Thompson, Colby, KS. pp. 140-151.
- Rogers, D.H. and M. Alam, 2009. Presentation on irrigated agriculture options to the Kansas National Guard for their agricultural mission to Afghanistan. Discussion included microirrigation systems. Manhattan, KS. March 3, 2009
- Sammis, T.W., M.K. O’Neill, and J. Wang. 2013 (in press). Estimating economic value of research projects. *Research Bulletin, Agricultural Experiment Station and Cooperative Extension Service, New Mexico State University, Las Cruces, NM.*
- Schwankl, L. 2009. Fine Tuning Your Microirrigation System for the Drought- 30 min, Presenter, Almond Growers, Colusa County, 2/19/09, 100 Attendees.
- Schwankl, L. 2011. Control of Drip Irrigation Systems - 30 min., Invited Speaker, Growers of San Joaquin Valley Winegrowers Assoc., Tulare County, CA, 4/28/11, 20 Attendees.
- Schwankl, L. 2011. Measuring Flow in Drip Irrigation Systems - 45 min., Invited Speaker, Sonoma Co. winegrape growers & consultants, Sonoma, CA, 2/23/11, 200 Attendees.
- Schwankl, L. 2012. Subsurface Drip Irrigation in Almonds - 40 min., Invited Speaker, S. Sacramento Valley almond growers, Colusa Co., CA, 2/2/12, 100 Attendees.
- Schwankl, L. 2009. Chemigation & Making the Most of Your Microirrigation System- 45 min, Presenter, CAPCA Meeting, Fresno, CA, 10/15/09, 125 Attendees.
- Schwankl, L. 2009. Drip Irrigation Systems and Maintenance- 1 hr, Presenter, UC Winegrape Short Course, Davis, CA, 2/25/09, 100 Attendees.
- Schwankl, L. 2009. Fine Tuning Your Microirrigation System- 30 min, Presenter, Almond Drought Meeting, Stanislaus County, CA, 3/31/09, 250 Attendees.
- Schwankl, L. 2009. Fine Tuning Your Microirrigation System- 30 min, Presenter, Pistachio Day, Visalia, CA, 1/14/09, 225 Attendees.
- Schwankl, L. 2009. Maintaining Drip Irrigation Systems- 45 min, Presenter, Grower Meeting, Indio, CA, 6/10/09, 25 Attendees.

- Schwankl, L. 2009. Maintenance and Management of Winegrape Drip Systems- 1.5 hr, Presenter, Lodi-Woodbridge Winegrape Commission Grower Workshop, Lodi, CA, 1/13/09, 75 Attendees.
- Schwankl, L. 2009. Maintenance of Drip Systems- 40 min, Presenter, Tomato Grower Meeting, Stockton, CA, 2/10/09, 50 Attendees.
- Schwankl, L. 2009. Maintenance of Microirrigation Systems When Using Well Waters- 30 min, Presenter, Grower Meeting, Westside REC, Five Points, CA, 4/15/09, 80 Attendees.
- Schwankl, L. 2009. Microirrigation Maintenance & Chemigation Uniformity- 30 min, Presenter, UCCE & NRCS Grower Meeting, Stanislaus County, CA, 8/4/09, 120 Attendees.
- Schwankl, L. 2010. Drip Irrigation Systems for Winegrapes- 30 min, Presenter, UC Winegrape Short Course, 2/24/10, 200 Attendees.
- Schwankl, L. 2010. Maintaining Microirrigation Systems- 45 min, Presenter, Citrus Growers Meeting, Tulare, CA, 4/30/10, 50 Attendees.
- Schwankl, L. 2010. Maintenance and Chemigation of Drip Irrigation Systems - 1 hr, Presenter, Grape Growers Meeting, San Luis Obispo, CA, 5/18/10, 100 Attendees.
- Schwankl, L. 2010. Maintenance of Microirrigation Systems- 30 min, Presenter, Tree Crop Meeting, Lake County, CA, 2/17/10, 30 Attendees.
- Schwankl, L. 2010. Managing Your Drip System - 45 min, Invited Speaker, Tehama Co. walnut growers & consultants, Red Bluff, CA, 12/17/2010, 100 Attendees.
- Schwankl, L. 2010. Filters & Maintenance of Drip Irrigation- 20 min, Presenter, California Agronomy Society Conference, Tulare, CA, 2/4/10, 75 Attendees.
- Schwankl, L. 2011. Microirrigation Systems - Water and Energy Efficiency- 45 min., Invited Speaker, Growers, Yolo County, 3/3/11, 50 Attendees.
- Schwankl, L. 2011. Subsurface Drip Irrigation in Seed Alfalfa - 25 min., Invited Speaker, Seed alfalfa growers & consultants, Westside REC, 3/9/11, 25 Attendees.
- Schwankl, L. 2012. Subsurface Drip Irrigation in Blackeye Production - 30 min., Invited Speaker, Growers & consultants at UC Blackeye Field Day, UC Kearney Ag Center, 8/1/12, 15 Attendees.
- Shannahan, J., M. Rupert, J. Schussler, J. Groeteke, F. Lamm, M. Dowgert, J. Vikupitz and J. Hunt. 2012. Subsurface drip irrigation for corn production and research. *Crop Insights* 22(11):1-4.
- Shock, C.C., E.B.G. Feibert, L.D. Saunders, and N. Shaw. 2010. Native Wildflower Seed Production with Limited Subsurface Drip Irrigation. Oregon State University Agricultural Experiment Station, 2009 Annual Report:193-209. <http://www.cropinfo.net/AnnualReports/2009/ForbIrrigation2009.html>
- Shock, C.C., E.B.G. Feibert, L.D. Saunders, and N. Shaw. 2010. Native Wildflower Seed Production with Limited Subsurface Drip Irrigation. Oregon State University Agricultural Experiment Station, 2009 Annual Report:193-209. <http://www.cropinfo.net/AnnualReports/2009/ForbIrrigation2009.html>
- Shock, C.C., E.B.G. Feibert, L.D. Saunders, and N. Shaw. 2010. SDI practices for native wildflower seed production. Summer Farm Festival and Annual Field Day, OSU Malheur Experiment Station. 13 July 2010. Ontario, OR.
- Shock, C.C., E.B.G. Feibert, L.D. Saunders, and N. Shaw. 2010. SDI practices for native wildflower seed production. Summer Farm Festival and Annual Field Day, OSU Malheur Experiment Station. 13 July 2010. Ontario, OR.
- Shock, C.C., E.B.G. Feibert, L.D. Saunders, L.B. Jensen, K.S. Mohan, R. Sampangi, and H. Pappu. 2010. Comparison of irrigation systems and irrigation criteria for onion production under IYSV pressure. Summer Farm Festival and Annual Field Day, OSU Malheur Experiment Station. 13 July 2010. Ontario, OR.
- Smeal, D. 2011. Rainwater catchment and low pressure drip irrigation demonstration. 16th Water Conservation/Xeriscape Conference and Expo. February 24-25, 2011. Albuquerque, NM.
- Smeal, D. 2011. Small scale drip irrigation. New Mexico Organic Conference. February 19, 2011. Albuquerque, NM.
- Smeal, D. 2012. Performance of drip irrigation emitters at sub-standard pressure. Western SARE Conference: Water: The Foundation of Agricultural Sustainability. August 7, 2012. Santa Fe, NM.

- Smeal, D. and K. Hooper. 2012. Performance of drip irrigation emitters at substandard pressure. Western Sustainable Agricultural and Research Workshop. Santa Fe, NM. August 7.
- Sorensen R.B., and Butts, C.L. 2009. Yield, grade, and gross revenue of double-cropped green bean and sweet corn with cotton. Online. Crop Management doi:10.1094/CM-2009-0615-02-RS.
- Sorensen, R.B., and Lamb, M.C. 2009. Peanut Yield, Market Grade, and Economics with Two Surface Drip Lateral Spacings. Peanut Sci. 36:85-91.
- Sorensen, R.B., Butts, C.L., and Nuti, R.C. 2011. Deep Subsurface Drip Irrigation for Cotton in the Southeast. Jour. Cotton Sci. 15:233-242.
- Sorensen, R.B., Nuti, R.C., and Butts, C.L. 2009. Yield and Plant Growth Response of Peanut to Mid-Season Forage Harvest. Agron. J. 101:1198-1203.
- Wilbourn, Brant Alan. 2012. Economic Analysis of Alternative Irrigation Technologies: Lower Rio Grande Valley. Submitted as partial fulfillment of the requirements for the degree of Master of Science in Agricultural Economics. Texas A&M University. December 2012. (Committee Co-Chairs: M. Edward Rister and Ronald D. Lacewell; Members: James R. Gilley and John Robinson.)
- Yitayew, M. 2009. Simplified Method for Sizing Laterals with Two or More Diameters, ASCE Journal of Irrigation and Drainage Engineering, January/February (2009) Vol. 135, No. 1 111-114.

## **Publications and Presentations for Objective 3**

### **Develop best management practices for application of agrochemicals**

- AbdelGadir, A.H., M. Dougherty, J.P. Fulton, C. Burmester, C. Norris, L.M. Curtis, and D. Monks. 2009. Sub-surface drip irrigation-fertigation for site-specific, precision management of cotton. Paper No. 2176. Innovations in Irrigation Conference. December 2-4, 2009, San Antonio, TX.
- Ahmad, A., A. Fares, S. Paramasivam, M. A. Elrashidi; R. M. Savabi. 2009. Biomass and nutrient concentration of sweet corn roots and shoots under organic amendments application. J. of Environ. Sci. and Health, Part B: Pesticides, Food Contaminants, and Agricultural Wastes, 1532-4109, 44(8): 742 – 754.
- Ahmad, A.A.; A. Fares, and N. V. Hue. 2012. Nitrate Dynamic in a Tropical Mollisol Amended with Organic Manures, Planted with Sweet Corn, and Monitored with SPAD Readings. Commun. Soil Sci. Plant Anal. 43: 2274-2288.
- Ahmad, A.A.; Fares, A.; Abbas, F.; Deenik, J.L. 2009. Nutrient concentrations within and below root zones from applied chicken manure in selected Hawaiian soils Journal of Environmental Science and Health Part B. 44(8): 828-843.
- Bartolo, M.E. 2009. Onion response to different water qualities. In Arkansas Valley Research Center 2007 Reports, CSU Ag. Expt. Station Technical Report 09-12. p.38-41.
- Bartolo, M.E. 2012. Effect of Water Quality on Cantaloupe Yield and Quality. In Arkansas Valley Research Center 2009 Reports, Colorado State University Ag. Expt. Station Technical Report 12-5. p.14-17. January 2012.
- Bartolo, M.E. 2012. Effect of Water Quality on Watermelon Yield and Quality. In Arkansas Valley Research Center 2009 Reports, Colorado State University Ag. Expt. Station Technical Report 12-5. p.18-21. January 2012.
- Beggs, R.A., D.J. Hills, G. Tchobanoglous, and J.W. Hopmans. 2011. Fate of nitrogen for subsurface drip irrigation of effluent from small wastewater systems. Journal of Contaminant Hydrology 126:19-28. doi:10.1016/j.jconhyd.2011.05.007
- Brown, P. 2011. Update on Nutrient Management of Almonds. Almond Board of California: Modesto CA.
- Brown, P. 2011. CDFA-FREP Annual Conference. Management of N in Tree Crops. Paso Robles CA.
- Brown, P. 2011. Sampling strategies for Nutrient Management in Tree Crops. Fluid Fertilizer Foundation Meeting. Stockton CA.
- Brown, P. 2011. Stakeholder Meeting Paramount Farming: Bakersfield CA.
- Brown, P. 2012. Foliar fertilization of tree crops. ASHS. Miami FL.
- Brown, P. 2012. Management of N in Almonds. CDFA-FREP and WPHA Annual Workshop. Modesto CA. 400 atten. Expert Panel Member presentation and discussion.

- Brown, P. 2012. Managing large scale collaborative research projects. Pomology Extension Continuing Conference. Davis CA.
- Brown, P. 2012. Nutrient Budget and development of new sampling strategies for N management. Australian Almond Industry Annual Meeting, Nuriootpa, SA.
- Brown, P. 2012. Nutrient Budget and development of new sampling strategies for N management. ISHS Meeting on Nutrition of Tree Crops, Chakrabourty Thailand.
- Brown, P. 2012. Nutrient Budget and development of new sampling strategies for N management. Northern San Joaquin Almond Day. Merced, CA.
- Brown, P. 2012. Nutrient Management in Pistachio. Pistachio Day. Visalia CA.
- Brown, P. 2012. Plant Nutrition in a Changing Environment. German Soc. for Plant Nutrition.
- Chighladze, G., A. Kaleita, S. Logsdon, and S. Birrell. 2012. Estimating soil solution nitrate concentration from dielectric spectra using partial least squares analysis. *Soil Science Society of America Journal*. 76(5): 1536-1547.
- Chighladze, G., A.L. Kaleita, and S. Birrell. 2009. Response of capacitance probes to soil solution nitrate concentration. ASABE Paper No. 097211. ASABE Annual International Conference, Reno, NV, June 21 !! June 24.
- Coates, R.W., P.K. Sahoo, P.K., L.J. Schwankl, and M.J. Delwiche. 2011. Fertigation techniques for use with multiple hydrozones in simultaneous operation. *Precision Agriculture* DOI 10.1007/s11119-011-9239-0. 16 pp.
- Dougherty, M., A.H. AbdelGadir, J.P. Fulton, E. van Santen, L.M. Curtis, C.H. Burmester, C.H., H.D. Harkins, and B.E. Norris. 2009. Subsurface Drip Irrigation and Fertigation for North Alabama Cotton Production. *Journal of Cotton Science*. 13(2009):227-237.
- Fares, A., F. Abbas, S.K. Deb, S. Paramasivam. 2009. Citrus Chemigation. *Tree Forestry Science and Biotechnology*. 3:22-31.
- Foley, K.M. and C.C. Shock. 2012. Benefits of strip tillage to increase farming efficiency and protect water quality. p 236-244 In Shock C.C. (Ed.) Oregon State University Agricultural Experiment Station, Malheur Experiment Station Annual Report 2011, Department of Crop and Soil Science Ext/CrS 141.
- Foley, K.M., A.R. Doniger, C.C. Shock, D.A. Horneck, and T. Welch. 2012. Nitrate pollution in groundwater, Sustainable Agriculture Techniques, Oregon State University, Department of Crop and Soil Science Ext/CrS 137.
- Foley, K.M., C.C. Shock, O.S. Norberg, and T.K. Welch. 2012. Making strip tillage work for you: a growers guide, Oregon State University, Department of Crop and Soil Science Ext/CrS 140.
- Gonzalez A. and M. K. Shukla. 2010. Coupled Transport of Nitrate and Chloride in Unsaturated porous Media. 2010 International annual meetings, ASA-CSSA-SSSA, Oct. 31-Nov. 4, 2010, Long Beach, CA.
- Gonzalez A. and M. K. Shukla. 2010. Transport of Nitrate and Chloride in Saturated Soil Columns. The 2010 New Mexico Water Research Symposium: Resource Interdependence, August 03, 2010, Macey Center, New Mexico Tech, Socorro, New Mexico.
- Ha, W., Ajwa, H. A., Mansell, R. S., and Stanley, C. D. 2009. Two-dimensional simulation of non-isothermal fate and transport of a drip-applied fumigant in plastic-mulched soil beds. II. Methyl isothiocyanate (MITC). *Transport in Porous Media* 76:431-448
- Ha, W., Mansell, R. S., Stanley, C. D., and Ajwa, H. A. 2009. Two-dimensional simulation of non-isothermal fate and transport of a drip-applied fumigant in plastic- mulched soil beds. I. Model development and performance investigation. *Transp. Porous Med.* 78:77-99:
- Harden, J.L., K.M. Foley, C.C. Shock, and T.K. Welch. 2012. Eliminating runoff water from your farm, Sustainable Agriculture Techniques, Oregon State University, Department of Crop and Soil Science Ext/CrS 142. 5 p.
- He, J., Dougherty, M., and A.H. AbdelGadir. 2012. Numerical assisted assessment of vadose-zone nitrogen transport under a soil moisture controlled wastewater SDI dispersal system in a Vertisol. *Ecological Engineering*, doi: 10.1016/j.ecoleng.2012.12.048.
- Hopmans, J.W. M. Kandalous. 2012. Optimizatoin of water and nitrate use efficiencies for almonds under micro irrigation. Annual Report. Almond Board. Project 11-PREC4-Hopmans
- Lamm, F.R. 2009. Poster presentation of Optimum Fertigation for Corn Using SDI at Central Plains Irrigation Conference, February 24-25, 2009, Colby, Kansas.



- Letey, J, GJ Hoffman; JW Hopmans; SR Grattan; D Suarez; DL Corwin; JD Oster; L Wu; and C. Amrhein. 2011. Evaluation of Soil Salinity Leaching Requirement Guidelines. *Agricultural Water Management*. Vol 98(4): 502-506. <http://dx.doi.org/10.1016/j.agwat.2010.08.009>.
- Letey, J., G. J Hoffman; J. W Hopmans; S. R Grattan; D. Suarez; D. L Corwin; J. D Oster; L. Wu; and C. Amrhein. 2011. Evaluation of Soil Salinity Leaching Requirement Guidelines. *Agricultural Water Management*. Vol 98 (4): 502-506. <http://dx.doi.org/10.1016/j.agwat.2010.08.009>
- Lombard, K A, MK O'Neill, AL Ulery, J Mexal, B Onken, S Forster-Cox, TW Sammis. 2011. Fly ash and composted biosolids as a source of Fe for hybrid poplar: a greenhouse study. *Applied and Environmental Soil Science*, 2011, 11p.
- Lombard, K A, MK O'Neill, RF Heyduck, BM Onken, AL Ulery, J Mexal, A Unc. 2011. Composted biosolids as a source of iron for hybrid poplars (*Populus* sp) grown in Northwest New Mexico. *Agroforestry Systems*, 81(1), 45-56.
- Lombard, K.A., M.K. O'Neill, R. Heyduck, B. Onken, A. Ulery, and J. Mexal. 2009. Composted biosolids as a source of iron for hybrid poplars (*Populus* sp) grown in Northwest New Mexico. Poster presentation. 2nd World Congress on Agroforestry. August 23-28, 2009. World Agroforestry Centre (ICRAF). Nairobi, Kenya.
- Lombard, K.A., M.K. O'Neill, R. Heyduck, B. Onken, A. Ulery, J. Mexal, D. Smeal, and R. Arnold. 2009. Composted biosolids as a source of iron for hybrid poplars (*Populus* sp) grown in Northwest New Mexico. Poster presentation at the Second World Congress on Agroforestry. August 23-28, 2009. World Agroforestry Centre (ICRAF). Nairobi, Kenya. <http://www.worldagroforestry.org/wca2009/posters>
- Lombard, K.A., M.K. O'Neill, R.F. Heyduck, B. Onken, A.L. Ulery, J.G Mexal, and A. Unc. 2010. Composted biosolids as a source of iron for hybrid poplars (*Populus* sp) grown in Northwest New Mexico. *Agroforestry Systems* 81:45-56. <http://www.springerlink.com/content/v73123244h1383h1/fulltext.pdf>.
- Lombard, Kevin, Mick O'Neill, John Mexal, April Ulery, Blake Onken, Greg Bettmann, and Robert Heyduck. 2010. Can soil plant analysis development values predict chlorophyll and total Fe in hybrid poplar? *Agroforestry Systems* 78:1-11. <http://www.springerlink.com/content/p166456227817151/fulltext.pdf>.
- Loper, S., A.L. Shober, C. Wiese, G.C. Denny, and C.D. Stanley. 2010. Organic soil amendment and tillage affect soil quality and plant performance in simulated residential landscapes. *HortScience* 45(10): 1522-1528.
- Loper, S.J., A.L. Shober, C. Wiese, G.C. Denny and C.D. Stanley. 2012. Nutrient Leaching during Establishment of Simulated Residential Landscapes. *J. Environ. Qual.* 0: -. doi:10.2134/jeq2012.0098.
- Michael K. Miyittah, Craig D. Stanley, Cheryl Mackowiak, Dean R. Rhue, and Jack E. Rechcigl. 2011. Developing a Remediation Strategy for Phosphorus Immobilization: Effect of Co-blending, Al-residual and Ca-Mg Amendments in a Manure-Impacted Spodosol. *Soil and Sediment Contamination: An Online Journal*. Vol 20: 337-352. Website: [http://www.informaworld.com/openurl?genre=article&issn=1532-0383&volume=20&issue=4&spage=337&uno\\_jumptype=alert&uno\\_alerttype=new\\_issue\\_alert,email](http://www.informaworld.com/openurl?genre=article&issn=1532-0383&volume=20&issue=4&spage=337&uno_jumptype=alert&uno_alerttype=new_issue_alert,email)
- Mitschele, R.; Radovich, T.; Fares, A.; Ahmad, A. 2012. Field and Laboratory Evaluation of the Cardy Nitrate-Nitrogen Meter for Measuring Soil Solution Nitrate Nitrogen in Hawaiian Soils. *Communications in Soil Science and Plant Analysis*. 43(9): 1237-1246.
- Morgan, K.T., T.A. Wheaton, W.S. Castle, and L.R. Parsons. 2009. Response of young and maturing citrus trees grown on a sandy soil to irrigation scheduling, nitrogen fertilizer rate, and nitrogen application method. *HortScience* 44(1):145-150.
- Noling, J. W. and L. R. Parsons. 2013. Best management practices of soil-applied agricultural chemicals. In: 2013 Florida Citrus Pest Management Guide. M. Rogers and M. M. Dewdney, Eds. University of Florida, IFAS. 142 pp.
- Noling, J.W., L.R. Parsons, and T.A. Wheaton. 2009. 2010 Florida Citrus Pest Management Guide: Best management practices for soil-applied agricultural chemicals. HS-185. EDIS pub. 5 pp. <http://edis.ifas.ufl.edu/cg027>
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## **Publications and Presentations for Objective 4**

### **Evaluate use of non-potable water through microirrigation**

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