

Curriculum Vitae

Steven Roy EVETT

Work address:

USDA-ARS
2300 Experiment Station Road
Bushland, Texas 79012

Home address:

6301 Calumet Road
Amarillo, TX 79106
tel. (806)352-3088

TEL: (806)356-5775

FAX: (806)356-5750

E-mail: srevett@cpri.ars.usda.gov

Web site: <http://www.cpri.ars.usda.gov/programs/>

Education:

1972 B.S. chemistry, University of Idaho, Moscow.

1983 M.S. soil and water science, University of Arizona, Tucson.

1989 Ph.D. soil and water science, University of Arizona, Tucson (soil physics & irrigation).

Languages:

Fluent in French, studied Spanish for 4 years, German for 2.

Experience:

- Since 10/93 Soil scientist, USDA, ARS, Bushland, TX (Lead Scientist since 2000) studying energy and water balances of irrigated crops using modeling and field measurements including fallow and bare soil conditions, and irrigation automation and water use efficiency. Research projects in Egypt and Uzbekistan on crop water use, irrigation scheduling and soil water measurement. ARS Coordinator of the MERIMIS Project (<http://www.merimis.org/index.html>).
- 11/91-9/93 Soil scientist collaborator and principle investigator for CSRS grant, "Soil water and temperature effects on root water uptake: Measurement and modeling", USDA-ARS, Bushland TX.
- 11/89-11/91 Soil scientist, USDA-ARS Conservation and Production Research Lab., Bushland TX, investigating soil physical properties and SPAC simulation.
- 1/89 - 6/89 Researched spatial variability of infiltration parameters comparing three field methods, Univ. of Arizona.
- 1/88 - 6/88 Taught soil physics (SW470) lecture and laboratory, University of Arizona.
- 5/86 - 10/87 Professional faculty member, University of Arizona, directing U.S. activities of LAPIS ag. development project in Lesotho including coordination of B.S., M.S., and Ph.D. training of 30+ Basuto.
- 5/87 - 6/87 Performed irrigation training needs assessment for the Kagera Basin Organization, Rwanda and USAID/Rwanda on contract to USDA/OICD.
- 5/87 Review and assessment of La Hatte, Haiti irrigation project for The Haiti Project, Tucson AZ.
- 1/84 - 12/86 Graduate research associate, University of Arizona.
- 5/85 Technical consultant - hillside dams, pumped & gravity sprinkler irrigation for Peace Corps, Lesotho.
- 7 - 8/84 Team leader for La Hatte, Haiti irrigation project feasibility study including topographic survey; hydrologic, soils and socio-economic studies; and plan for 100 ha system.
- 11 - 12/83 Trained 12 Peace Corps trainees and 4 Malians in large bore, reinforced concrete well construction and in small scale irrigation.

8/83 Water resource management programming consultant for Peace Corps, Mali.
5/83 Small scale irrigation and swamp development consultant for Peace Corps, Liberia.
9/80 - 6/83 Graduate research associate, University of Arizona.
9 - 10/81 Soil and water scientist with USAID environmental sector assessment team in Bourkina Faso.
6 - 8/80 Directed training (language, technical and cultural) for 60 trainees, Peace Corps, Niger, West Africa.
9 - 10/79 Wrote an evaluative report on the "Niger Marshlands Survey Project" for USAID, Niger, W. Africa.
6 - 9/79 Directed technical training in agriculture and rural development for 25 trainees, Peace Corps, Niger.
1 - 5/79 Directed training (language, technical and cultural) for 10 trainees, Peace Corps, Niger.
3 - 5/78 Traveled in several West African countries and Europe.
11/77 - 3/78 Directed in-service training, Peace Corps, Burkina Faso.
8 - 10/77 Coordinated technical training for 10 trainees in ag. and rural development, Peace Corps, Burkina Faso.
7/75 - 7/77 Peace Corps volunteer in Burkina Faso, West Africa. Designed and built water-spreading and soil conservation projects.

Awards/Honors:

The Honor Society of Agriculture; Mu Epsilon Delta, pre-medical honorary; Phi Eta Sigma, Scholastic honorary; Wendell High School valedictorian.
Editors' Citation for Excellence in Manuscript Review, Soil Sci. Soc. Amer. J., 1992.
USDA Certificate of Merit, 1995, for extra effort in designing and installing weighing lysimeters in Egypt and Bushland to measure accurately water use by irrigated crops
USDA Certificate of Merit, 1996, in recognition for superior performance of duties and contributions to the research program at the Conservation & Production Research Laboratory
ASAE Outstanding Reviewer, Soil and Water Division, 1996.
USDA Certificate of Merit, 1997, for superior performance of duties as a soil scientist in support of the USDA, Agricultural Research Service, Bushland, TX
President's Citation, Texas Council of Chapters, Soil and Water Conservation Society, for "His Outstanding Leadership in Planning the 1998 Annual Meeting of Texas Council of Chapters, Amarillo, Texas - June 17-19, 1998".
USDA Certificate of Merit, 1998, for outstanding evapotranspiration and irrigation research; for outstanding leadership in professional societies; and for outstanding performance as the Laboratory Radiation Safety Officer supporting the Conservation and Production Research Laboratory, Bushland, TX
U.S. Dept. of Energy Federal Energy and Water Management Award, 1999, with Terry Howell and Don Dusek.
USDA-ARS Technology Transfer Award, 1999, for transferring the evapotranspiration research at Bushland to producers, consultants, water districts, and action agencies to promote water conservation in the Southern High Plains. With T.A. Howell and D.A. Dusek, USDA-ARS; and T.H. Marek, G.J. Michels, Jr., L.L. New, B. Bean, Texas A&M Univ. Extension.
USDA Certificate of Merit, 1999, Quality Step Increase, for outstanding performance in

support of the USDA, Agricultural Research Service, Bushland, Texas.
USDA Certificate of Merit, 2000, based on an official performance appraisal of outstanding for the rating period November 1, 1999 through December 31, 2000, USDA, Agricultural Research Service, Southern Plains Area.
President's Citation, Texas Council of Chapters, Soil and Water Conservation Society, June 23, 2000, "In Recognition of Your Leadership and Coordination of the Annual Meeting in Tyler".
Award for "Outstanding Service as President of the Texas Council of the Soil and Water Conservation Society 2000-2001" presented by the Texas Council of Chapters at the 2001 Annual Meeting at Abilene, TX
Award for six years service as Associate Editor of Agronomy Journal from the American Society of Agronomy, 2001
USDA Certificate of Merit, 2001, based on an official performance appraisal of superior for the rating period January 1, 2001 through December 31, 2001, USDA, Agricultural Research Service, SPA
USDA Certificate of Merit, 2002, based on an official performance appraisal of outstanding for the rating period January 1, 2002 through December 31, 2002, USDA, Agricultural Research Service, SPA
Fellow of the American Society of Agronomy, 2003
Citation for Excellence in Manuscript Review for Vadose Zone Journal, 2003
USDA Certificate of Merit, 2004, based on an official performance appraisal of outstanding for the rating period January 1, 2004 through December 31, 2004, USDA, Agricultural Research Service, SPA
Citation for Excellence in Manuscript Review for Vadose Zone Journal, 2004
USDA SPOT Award, 2006: Outstanding team leadership in NP 201 Problem Area 2: Irrigation Water Management and Security, USDA Agricultural Research Service, Bushland, TX

Professional Society Activities and Memberships:

Vadose Zone Journal Associate Editor, 2006-present
American Society of Agronomy Division A-3 Chair-elect, 2005-2006
Guest Editor, Vadose Zone Journal, 2004-2005, Special Issue on Soil Water Sensing
Organizing Chair, Division S-1 (soil physics) session on soil moisture measurement device comparisons, calibration, interferences, Nov. 2004, Seattle, SSSA-CSSA Joint Meeting.
Ad-hoc Technical Editor, Agronomy Journal, 2002-2003
Associate Editor, Division A-3, Agronomy Journal, 1995 through 2001.
President-elect, Texas Council of Chapters, Soil & Water Conservation Society, 1999-2000.
President, Texas Council of Chapters, Soil & Water Conservation Society, 2001-2001.
Past-President, Texas Council of Chapters, Soil & Water Conservation Society, 2001-2002.
President, Golden Spread Chapter, Soil & Water Conservation Society, 1998.
Member: American Geophysical Union, American Society of Agricultural Engineers, American Society of Agronomy, International Union of Soil Scientists, Soil & Water Conservation Society of America, Soil Science Society of America, Texas Turf Irrigation Association.

Papers and Publications (see <http://www.cprl.ars.usda.gov/programs/> for PDF files:

Evetv, S.R., J.A. Tolk, and T.A. Howell. 2006. Soil Profile Water Content Determination: Sensor Accuracy, Axial Response, Calibration, Temperature Dependence and Precision. Accepted for publication by *Vadose Zone Journal*

Peters, R.T., and S.R. Evett. 2006. Center-Pivot Automation: Using crop canopy temperature to eliminate irrigation guesswork. *In Resource: Engineering and Technology for a Sustainable World*. Vol. 13 No.2 March 2006. pp. 9-10.

Colaizzi, P.D., S.R. Evett, and T.A. Howell. 2005. Cotton production with SDI, LEPA, and spray irrigation in a thermally-limited climate. 2005 Conference Proceedings. *Emerging Irrigation Technology*. The Irrigation Association. Nov. 6-8, 2005, Phoenix, Arizona. pp. 15-30. (CD-ROM)

Tolk, J.A., T.A. Howell, and S.R. Evett. 2005. An evapotranspiration research facility for soil-plant-environment interactions. *Applied Engineering in Agriculture*, Vol. 21(6): 993-998.

Evetv, S.R. 2005. International Soil Moisture Sensor Comparison. *In Irrigation Insights No. 1, Second Edition, SOIL WATER MONITORING*, P. Charlesworth (ed.). Land & Water Australia, Braddon, Australia. Pp. 68-71. (Chapter)

Evetv, S.R., and G. W. Parkin. 2005. Advances in Soil Water Content Sensing: The Continuing Maturation of Technology and Theory. *Vadose Zone J* 2005 4: 986-991. Special Section: Soil Water Sensing. doi:10.2136/vzj2005.0099

Evetv, S.R., J.A. Tolk, and T.A. Howell. 2005. TDR laboratory calibration in travel time, bulk electrical conductivity, and effective frequency. *Vadose Zone Journal* 4:1020-1029 (2005). Special Section: Soil Water Sensing. doi:10.2136/vzj2005.0046

Evetv, S. T. Howell, and J. Tolk. 2005. Time domain reflectometry calibration in terms of travel time, bulk electrical conductivity, and effective frequency. *ASA-CSSA-SSSA International Annual Meetings (November 6-10, 2005) (Abstract)*

Ibragimov, N., S. Evett, Y. Esanbekov, and B. Kamilov. 2005. Water use of maize for two irrigation methods and two scheduling methods. *ASA-CSSA-SSSA International Annual Meetings (November 6-10, 2005) (Abstract)*

Kamilov, B., S. Evett, N. Ibragimov, G. Bezborodov, Y. Esanbekov, and J. Lamers. 2005. Water use of winter wheat for two irrigation and scheduling methods in uzbekistan. *ASA-CSSA-SSSA International Annual Meetings (November 6-10, 2005) (Abstract)*

Schwartz, R.C., R.L. Baumhardt, and S.R. Evett. 2005. Tillage effects on near surface soil water dynamics. *ASA-CSSA-SSSA International Annual Meetings (November 6-10, 2005) (Abstract)*

Tolk, J., S.R. Evett, and T.A. Howell. 2005. Nighttime evapotranspiration from alfalfa and

cotton in a semiarid environment. ASA-CSSA-SSSA International Annual Meetings (November 6-10, 2005) (Abstract)

Peters, R.T., and S.R. Evelt, 2005. Mechanized irrigation system positioning using two inexpensive GPS receivers. ASAE Annual International Meeting, Paper Number: 052068.

Peters, R.T., and S.R. Evelt. 2005. Using low-cost GPS receivers for determining field position of mechanized irrigation systems. *Applied Engineering in Agriculture*. Vol. 21(5): 841-845.

Colaizzi, P.D., S.R. Evelt, and T.A. Howell. 2005. Comparison of spray, LEPA, and SDI for cotton and grain sorghum in the Texas Panhandle. Proc. 2005 Central Plains Irrigation Conference, Sterling, Colorado, Feb 16-17. pp. 123-136.

Evelt, S.R., P.D. Colaizzi, and T.A. Howell. 2005. Drip and Evaporation. Proc. 2005 Central Plains Irrigation Conference, Sterling, Colorado, Feb 16-17. pp. 33-39.

Howell, T.A., and S.R. Evelt. 2005. Pathways to Effective Applications. Proc. 2005 Central Plains Irrigation Conference, Sterling, Colorado, Feb 16-17. pp. 84-98.

Ibragimov, N., S. Evelt, and B. Kamilov. 2004. Soil water balance of wheat and cotton in Uzbekistan by neutron probe. Abstract no. 4090. ASA-CSSA-SSSA Annual Meetings Abstracts 2004.

Kamilov, B., S. Evelt, and N. Ibragimov. 2004. Neutron moisture meter calibration in soils of Uzbekistan. Abstract no. 4091. ASA-CSSA-SSSA Annual Meetings Abstracts 2004.

Tolk, J.A., T.A. Howell, and S.R. Evelt. 2004. An Evapotranspiration Research Facility for Soil-plant-environment Interactions. Abstract no. 4102. ASA-CSSA-SSSA Annual Meetings Abstracts 2004.

Howell, T.A., J.A. Tolk, R.L. Baumhardt, and S.R. Evelt. 2004. Furrow Irrigated Cotton-Sorghum Rotation for the Texas Northern Plains. Abstract no. 3852. ASA-CSSA-SSSA Annual Meetings Abstracts 2004.

Schwartz, R.C., R.L. Baumhardt, and S.R. Evelt. 2004. Tillage effects on near surface soil water dynamics. Abstract no. 5226. ASA-CSSA-SSSA Annual Meetings Abstracts 2004.

Evelt, S.R. 2004. Profile water content measurement for soil water balance: Systems compared. Abstract no. 3249. ASA-CSSA-SSSA Annual Meetings Abstracts 2004.

Howell, T.A., S.R. Evelt, J.A. Tolk, and A.D. Schneider. 2004. Evapotranspiration of full-deficit-irrigated, and dryland cotton on the Northern Texas High Plains. *J. Irrig. Drain. Engr.* Vol. 130, No. 4. August 1, 2004. pp. 277-285.

Colaizzi, P. D., S. R. Evelt, and T. A. Howell. 2004. Irrigation methods and capacities for cotton in the northern High Plains. Rainwater, K.A. and Zobeck, T.M. (eds.) High Plains

Groundwater Resources: Challenges and Opportunities, Conference Proceedings, Texas Tech University Water Resources Center, Lubbock, TX. Dec. 7-9, 2004. pp. 154-163.

Colaizzi, P.D., S. R. Evelt, and T. A. Howell. 2004. Comparison of SDI, LEPA, and spray irrigation performance for cotton in the North Texas High Plains. CD-ROM. Irrigation Association Annual Meeting, 14-16 Nov, Tampa, FL. 2004.

Peters, R.T., and S.R. Evelt. 2004. Comparison of scaled canopy temperatures with measured results under center pivot irrigation. In: Proceedings of the 25th Annual International Irrigation Show of the International Association, Nov 14-16, 2004, Tampa, Florida. 2004 (CDROM).

Evelt, S.R. 2004. Water use in irrigation: prospects for increased water use efficiency through cooperation in the Middle East. Proc. Workshop Promoting Cooperation in Agricultural Research and Development in the Middle East Region. 5-7 July 2004, Koc University, Turkey. BARD, Bet Dagan, Israel. (Abstract)

Peters, R.T., and S.R. Evelt. 2004. Complete center pivot automation using the temperature-time threshold method of irrigation scheduling. ASAE/CSAE Meeting Paper No. 042196. St. Joseph, Mich. American Society of Agricultural Engineers.

Colaizzi, P.D., S.R. Evelt, T.A. Howell. 2004. Comparison of aerodynamic and radiometric surface temperature. International Symp. Optical Sci. Tech., The International Society for Optical Engineering 49th Annual Meeting, 2-6 August 2004, Denver. (Invited)

Peters, R.T., and S.R. Evelt. 2004. Modeling Diurnal Canopy Temperature Dynamics Using One-Time-of-Day Measurements and a Reference Temperature Curve. Agron. J. Vol. 96 No. 6, p. 1553-1561.

Colaizzi, P.D., A.D. Schneider, S.R. Evelt, and T.A. Howell. 2004. Comparison of SDI, LEPA, and spray irrigation performance for grain sorghum. Trans. ASAE Vol. 47(5): 1477-1492.

Howell, T.A., and S.R. Evelt. 2004. The Penman-Monteith Method. Section 3 in Evapotranspiration: Determination of Consumptive Use in Water Rights Proceedings. Continuing Legal Education in Colorado, Inc. Denver, CO.

van Donk, Simon, E.W. Tollner, J.L. Steiner, and S.R. Evelt. Soil temperature under a dormant bermudagrass mulch: Simulation and measurement. Transactions of the ASAE. Vol. 47(1) 91-98. 2004.

Ziegler, A.D., T.W. Giambelluca, L.T. Tran, T.T. Vana, M.A. Nullet, J. Fox, T.D. Vien, J. Pinthong, J.F. Maxwell, and S.R. Evelt. Hydrological consequences of landscape fragmentation in mountainous northern Vietnam: evidence of accelerated overland flow generation. J. Hydrology, Vol. 287, pp. 124-146. 2004.

Ibragimov, Nazirbay; Evelt, Steve; Esanbekov, Yusupbek; Kamilov, Bakhtiyor; and Heng, Lee.

Cotton and Winter Wheat Irrigation Scheduling Improvements in Uzbekistan. In "Understanding & Addressing Conservation and Recycled Water Irrigation", Proceedings of the International Irrigation Association Technical Conference. Pp. 26-34. November 2003. (CD-ROM)

Evettt, S.R., J.A. Tolk, and T.A. Howell. A depth control stand for improved accuracy with the neutron probe. *Vadose Zone Journal*. Vol. 2. pp. 642-649. 2003.

R.C. Schwartz and S.R. Evett. Conjunctive Use of Tension Infiltrometry and Time-Domain Reflectometry for Inverse Estimation of Soil Hydraulic Properties. *Vadose Zone Journal*. Vol. 2. pp. 530-538. 2003.

Howell, T.A., S.R. Evett, J.A. Tolk, R.W. Todd, and K.S. Copeland. Evapotranspiration of Alfalfa Under Advective Conditions. ASA-CSSA-SSSA Annual Meetings Abstracts 2003.

Balota, M., W.A. Payne, and S.R. Evett. Morphological and Physiological Traits Related with Reduced Canopy Temperature Depression in Two Closely-related Wheat Lines. ASA-CSSA-SSSA Annual Meetings Abstracts 2003.

Evettt, S.R. Measuring soil water by time domain reflectometry. In B.A. Stewart and Terry A. Howell (editors). *Encyclopedia of Water Science*, Marcel Dekker, Inc. New York. Pp. 894-898. 2003.

Evettt, S.R. Measuring soil water by neutron thermalization. In B.A. Stewart and Terry A. Howell (editors). *Encyclopedia of Water Science*, Marcel Dekker, Inc. New York. Pp. 889-893. 2003.

Evettt, S.R., D. Carman, and D.A. Bucks. Expansion of irrigation in the mid south united states: water allocation and research issues. In *Proceedings, 2nd International Conference on Irrigation and Drainage. Water for a Sustainable World - Limited Supplies and Expanding Demand*. May 12-15, 2003, Phoenix, Arizona. U.S. Committee on Irrigation and Drainage. Pp. 247-260.

2003. T.A. Howell, J.A. Tolk, S.R. Evett, R.L. Baumardt. Cotton and Sorghum Rotation Under Deficit Furrow Irrigation. Paper Number: 032134. 2003 ASAE Annual International Meeting, Sponsored by American Society of Agricultural Engineers, Riviera Hotel and Convention Center, Las Vegas, Nevada, USA, 27- 30 July 2003

S.R. Evett, J.A. Tolk, and T.A. Howell. Sensors for Soil Profile Water Content Measurement: Accuracy, Axial Response and Temperature Dependence. *Geophysical Research Abstracts*, Vol. 5, 09944. 2003.

Colaizzi, P.D., T.A. Howell, A.D. Schneider, and S.R. Evett. Comparison of LEPA, spray, and SDI irrigation efficiency for sorghum. *Biennial Grain Sorghum Research and Utilization Conference Proceedings*. May 2003.

Colaizzi, P.D., A.D. Schneider, T.A. Howell, and S.R. Evett. Comparison of SDI, LEPA, and spray efficiency for grain sorghum. *ASAE International Meeting (CD-ROM)*. 2003

Schwartz, R.C., S.R. Evett, and P.W. Unger. Soil Hydraulic Properties of Cropland Compared with Reestablished and Native Grassland. *Geoderma*. Vol. 117. Pp. 47-60. 2003.

Kamilov, Bakhtiyor; Ibragimov, Nazirbay; Esanbekov, Yusupbek; Evelt, Steven; and Heng, Lee. 2003. Drip Irrigated Cotton: Irrigation Scheduling Study by use of Soil Moisture Neutron Probe. *International Water and Irrigation*. Vol. 23. No. 1. pp. 38-41.

Kamilov, Bakhtiyor; Ibragimov, Nazirbay; Esanbekov, Yusupbek; Evelt, Steven; and Heng, Lee. 2002. Irrigation Scheduling Study of Drip Irrigated Cotton by use of Soil Moisture Neutron Probe. *In Proceedings of the National Workshop "Developing Cotton and Winter Wheat Agrotechnologies"*, December 24 and 25, 2002, Tashkent, Uzbekistan. Ministry of Agriculture and Water Management of the Republic of Uzbekistan, Uzbekistan Scientific Production Center of Agriculture (UzSPCA), Uzbekistan National Cotton Growing Research Institute (UNCGRI), and International Atomic Energy Agency (IAEA). Pp. 13-18. Tashkent, 2003.

Hignett, C., and S.R. Evelt. 2002. Neutron Thermalization. Section 3.1.3.10 *In* Jacob H. Dane and G. Clarke Topp (eds.) *Methods of Soil Analysis*. Part 4 – Physical Methods. pp. 501-521.

Evelt, S.R. 2002. Water use in crop production. *Vadose Zone Journal*, Vol. 1, Issue1, August 2002. pp. 204-206. (invited book review)

Evelt, S.R., T.A. Howell, A.D. Schneider, D.F. Wanjura, and D.R. Upchurch. 2002. Automatic drip irrigation control regulates water use efficiency. *International Water and Irrigation*, Vol. 22, No. 2, pp. 32-37.

Evelt, S.R., N. Ibragimov, B. Kamilov, Y. Esanbekov, M. Sarimsakov, J. Shadmanov, R. Mirhashimov, R. Musaev, T. Radjabov, and B. Muhammadiev. Soil moisture neutron probe calibration and use in five soils of Uzbekistan. 17th World Congress of Soil Science, August 14-21, 2002, Bangkok, Thailand, Abstracts Vol. V, pp. 1794.

Evelt, S.R., N. Ibragimov, B. Kamilov, Y. Esanbekov, M. Sarimsakov, J. Shadmanov, R. Mirhashimov, R. Musaev, T. Radjabov, and B. Muhammadiev. Soil moisture neutron probe calibration and use in five soils of Uzbekistan. 17th World Congress of Soil Science, August 14-21, 2002, Bangkok, Thailand, Transactions, pp. 839-1 - 839-10. (CD-ROM)

Evelt, S.R., B.B. Ruthardt, S.T. Kottkamp, T.A. Howell, A.D. Schneider, and J.A. Tolk. Accuracy and Precision of Soil Water Measurements by Neutron, Capacitance, and TDR Methods. 17th World Congress of Soil Science, August 14-21, 2002, Bangkok, Thailand, Abstracts Vol. V, p. 1829.

Evelt, S.R., B.B. Ruthardt, S.T. Kottkamp, T.A. Howell, A.D. Schneider, and J.A. Tolk. Accuracy and Precision of Soil Water Measurements by Neutron, Capacitance, and TDR Methods. 17th World Congress of Soil Science, August 14-21, 2002, Bangkok, Thailand, Transactions, pp. 318-1 - 318-8. (CD-ROM)

Evelt, Steven, Jean-Paul Laurent, Peter Cepuder, and Clifford Hignett. Neutron Scattering, Capacitance, and TDR Soil Water Content Measurements Compared on Four Continents. 17th World Congress of Soil Science, August 14-21, 2002, Bangkok, Thailand, Abstracts Vol. V, p. 1784.

Evelt, Steven, Jean-Paul Laurent, Peter Cepuder, and Clifford Hignett. Neutron Scattering, Capacitance, and TDR Soil Water Content Measurements Compared on Four Continents. 17th

World Congress of Soil Science, August 14-21, 2002, Bangkok, Thailand, Transactions, pp. 1021-1 - 1021-10. (CD-ROM)

Evelt, S.R. 2002. Water and Energy Balances at Soil-Plant-Atmosphere Interfaces. Pp. 127-188 *In* Arthur A. Warrick (ed.) *The Soil Physics Companion*. CRC Press LLC, Boca Raton, FL.

Evelt, S.R., T.A. Howell, A.D. Schneider, D.F. Wanjura, and D.R. Upchurch. 2001. Water use efficiency regulated by automatic drip irrigation control. Pp. 49-56 *In* 2001 Proceedings. International Irrigation Show. Oct. 31 - Nov. 7, San Antonio, Texas. The Irrigation Association, Falls Church, VA

Evelt, S.R., J.A. Tolk, and T.A. Howell. Sensors for soil profile moisture measurement compared. *Agron. Abstr.* 2002. (CD-ROM)

Howell, T.A., S.R. Evelt, J.A. Tolk, and A.D. Schneider. Evapotranspiration of full-, deficit-irrigated and dryland cotton on the Northern Texas High Plains. *In* C.M Burt and S.S. Anderson (eds.) *Proceedings 2002 USCID/EWRI Conference. Energy, Climate, Environment and Water - Issues and Opportunities for Irrigation and Drainage*. U.S. Committee on Irrigation and Drainage. pp. 321-339. 2002.

Howell, T.A., S.R. Evelt, J.A. Tolk, and A.D. Schneider. Water use of full-, deficit-irrigated, and dryland cotton on the Northern Texas High Plains. *Agron. Abstr.* 2002. (CD-ROM)

Kamilov, B., N. Ibragimov, S. Evelt, and L. Heng. Use of neutron probe for investigations of winter wheat irrigation scheduling in automorphic and semi-hydromorphic soils of Uzbekistan. *In* Proc. International Workshop on Conservation Agriculture for Sustainable Wheat Production in Rotation with Cotton in Limited Water Resource Areas, October 13-18, 2002, Tashkent, Uzbekistan. Pp. 225-229. 2002.

Schwartz, R.C., and S.R. Evelt. Conjunctive use of tension infiltrometry and TDR for inverse estimation of soil hydraulic properties. *Agron. Abstr.* 2002. (CD-ROM)

Schwartz, R.C., and S.R. Evelt. 2002. Estimating hydraulic properties of a fine-textured soil using a disc infiltrometer. *Soil Sci. Soc. Amer. J.* 66(5):1409-1423.

Tolk, J.A., S.R. Evelt, and T.A. Howell. Measured water balance of a fallow period in the Southern Great Plains. *Agron. Abstr.* 2002. (CD-ROM)

Kang, S., B.A. Stewart, C. Robinson, W. Payne, and S.R. Evelt. Evapotranspiration simulation of winter wheat using CROPWAT 5, MODWHT 3.2, and CERES-Wheat 3.5. *In* The Great Plains Foundation Symposium 2002: Protection and Utilization of Air and Water Resources of the Great Plains, Book of Abstracts. April 1-3, 2002, Amarillo, Texas.

Howell, T.A., S.R. Evelt, and J.A. Tolk. 2001. Irrigation systems and management to meet future food/fiber needs and to enhance water use efficiency. Pp. 10-14 *In* Proceedings of the INIFAP-ARS Joint Meeting: A Framework for Cooperation. Nov. 6-7, 2001, Rio Bravo, Tamaulipas, MEXICO and Weslaco, Texas, USA

Balota, M., W.A. Payne, S.R. Evelt, and M.D. Lazar. Canopy temperature depression for

drought resistance selection in wheat. Agron. Abstr. 2001. (CD-ROM)

Evetts, S.R., B.B. Ruthardt, S.T. Kottkamp, J.A. Tolk, and T.A. Howell. Profiling soil water probes compared in three soils. Agron. Abstr. 2001. (CD-ROM)

Howell, T.A., K.S. Copeland, S.R. Evetts, and J.A. Tolk. Radiation balance of irrigated turf grass. Agron. Abstr. 2001. (CD-ROM)

Tolk, J.A., T.A. Howell, and S.R. Evetts. Measured and modeled plant and soil water evaporation of cotton. Agron. Abstr. 2001. (CD-ROM)

Schneider, A.D., T.A. Howell, and S.R. Evetts. Comparison of SDI, LEPA and spray irrigation efficiency. Paper no. 012019. Presented at the ASAE Annual International Meeting, Sacramento, CA, July 29-Aug. 1. Am. Soc. Agric. Eng., 2950 Niles Road, St. Joseph, MI 49085-9659 USA. 2001

Evetts, S.R. 2001. Exploits and Endeavors in Soil Water Management and Conservation Using Nuclear Techniques. *In Proc. International Symposium on Nuclear Techniques in Integrated Plant Nutrient, Water and Soil Management*. Vienna, Austria, 16-20 October 2000 International Atomic Energy Agency, Vienna, Austria. (CDROM) Available at <http://www.cprl.ars.usda.gov/programs/> (Posted 24 Oct. 2000; verified 1 Jan. 2001).

Evetts, S.R. 2000. The TACQ Program for Automatic Time Domain Reflectometry Measurements: I. Design and Operating Characteristics. *Trans. ASAE* vol. 43(6):1939-1946.

Evetts, S.R. 2000. The TACQ Program for Automatic Time Domain Reflectometry Measurements: II. Waveform Interpretation Methods. *Trans. ASAE* vol. 43(6):1947-1956.

Evetts, S.R. 2000. Time Domain Reflectometry (TDR) System Manual. USDA-ARS Conservation and Production Research Laboratory. Available at <http://www.cprl.ars.usda.gov/programs/> (Posted 12 Dec. 2000; verified 12 Dec. 2000).

Evetts, S.R., T.A. Howell, and A.D. Schneider. 2000. Water and energy balances for surface and subsurface drip irrigated corn. *International Water and Irrigation Journal*, 20(4):18-22. 2000. Pp. 10-14 *In Revista Internacional de Aqua y Riego* (spanish language version).

Todd, R.W., S.R. Evetts, and T.A. Howell. 2000. The Bowen ratio-energy balance method evaluated in the semiarid advective environment of the Southern High Plains. *Agron. Abstr.* p. 31.

Evetts, S.R., and J.A. Tolk. 2000. Thermal conductivity from TDR and temperature measurements in three Southern Plains Soils. *Agron. Abstr.* p. 215.

Miao, Y., C.A. Robinson, B.A. Stewart, S.R. Evetts, and P.C. Robert. 2000. Soil spatial variability of native rangeland and adjacent cropland. *Agron. Abstr.* p. 302.

Evetts, S.R. 2000. Nuclear Gauge Module I, Design, Theory, and Operation. Pp. NGMI-1 to NGMI-23 *In Nuclear Gauge Train-the-Trainer Course*, USDA-Radiation Safety Staff, Beltsville, MA. Available at <http://www.cprl.ars.usda.gov/programs/> (Posted 30 Oct. 2000; verified 12 Dec.

2000).

Baumhardt, R.L., R.J. Lascano, and S.R. Evelt. 2000. Soil material, temperature, and salinity effects on calibration of multisensor capacitance probes. *Soil Sci. Soc. Amer. J.* 64(6)1940-1946. Nov.-Dec. 2000.

Evelt, S.R., T.A. Howell, R.W. Todd, A.D. Schneider, and J.A. Tolk. 2000. Alfalfa reference ET measurement and prediction. Pp. 266-272 *In* Robert G. Evans, Brian L. Benham, and Todd P. Trooien (ed) *Proceedings of the 4th Decennial National Irrigation Symposium*, Nov. 14-16, Phoenix, AZ.

Evelt, S.R., T.A. Howell, A.D. Schneider, D.R. Upchurch, and D.F. Wanjura. 2000. Automatic drip irrigation of corn and soybean. Pp. 401-408 *In* Robert G. Evans, Brian L. Benham, and Todd P. Trooien (ed) *Proceedings of the 4th Decennial National Irrigation Symposium*, Nov. 14-16, Phoenix, AZ.

Howell, T.A., S.R. Evelt, A.D. Schneider, D.A. Dusek, and K.S. Copeland. 2000. Irrigated fescue grass ET compared with calculated reference grass ET. Pp. 228-242 *In* Robert G. Evans, Brian L. Benham, and Todd P. Trooien (ed) *Proceedings of the 4th Decennial National Irrigation Symposium*, Nov. 14-16, Phoenix, AZ.

Miao, Y., C.A. Robinson, B.A. Stewart, and S.R. Evelt. 2000. Comparison of soil spatial variability in crop and rangeland. On CD-ROM *In* *Proceedings of the 5th International Conference on Precision Agriculture and Other Resource Management*, July 16-19, 2000, Bloomington, MN, USA. ASA-CSSA-SSSA, Madison, WI, USA.

Schwartz, R.C., P.W. Unger, and S.R. Evelt. 2000. Land Use Effects on Soil Hydraulic Properties. Pp. 1-10 *In* *Proceedings of the ISTRO-2000 Conference, 15th Conference of the International Soil Tillage Research Organization*, July 2-7, 2000, Ft. Worth, Texas.

Vick, B.D., R.N. Clark, and S.R. Evelt. 2000. Wind-powered drip irrigation systems for fruit trees. ASAE Paper No. 004030. Presented at the 2000 ASAE Annual International Meeting, Milwaukee, WI, July 9-12, 2000. Am. Soc. Agric. Eng., 2950 Niles Road, St. Joseph, MI 49085-9659 USA. 15 pp.

Evelt, S.R. 2000. Some Aspects of Time Domain Reflectometry (TDR), Neutron Scattering, and Capacitance Methods of Soil Water Content Measurement. Pp. 5-49 *In* *Comparison of soil water measurement using the neutron scattering, time domain reflectometry and capacitance methods*. International Atomic Energy Agency, Vienna, Austria, IAEA-TECDOC-1137. (Invited)

Todd, R.W., S.R. Evelt, and T.A. Howell. 2000. The Bowen ratio-energy balance method for estimating latent heat flux of irrigated alfalfa evaluated in a semi-arid, advective environment. *Agric. Forest Meteorol.* 103(2000):335-348.

Todd, R.W., S.R. Evelt, T.A. Howell, and N.L. Klocke. 2000. Soil temperature and water evaporation of small steel and plastic lysimeters replaced daily. *Soil Sci.* vol. 165, no. 11, pp. 890-895.

Tolk, J.A., T.A. Howell, and S.R. Evelt. 1999. Effect of mulch, irrigation, and soil type on water

use and yield of maize. *Soil & Tillage Res.* 50(1999):137-147.

Burke, J.J., and S.R.Evetv. 1999. Identification of the temperature threshold for soybean irrigation. *Soybean Res. World Conf. Proc.*

Evetv, S.R., T.A. Howell, and A.D. Schneider. 1999. Corn canopy temperature under feedback irrigation control. *Agron. Abstr.* p. 17.

Schwartz, R.C., and S.R. Evett. 1999. Field estimation of hydraulic properties using a tension infiltrometer. *Agron. Abstr.* p. 185.

Todd, R.W., J.A. Tolk, T.A. Howell, and S.R. Evett. 1999. Stomatal response of alfalfa to increasing water deficit. *Agron. Abstr.* p. 90.

Evetv, S.R. 1999. Energy and Water Balances at Soil-Plant-Atmosphere Interfaces. Chapter 5, pp. A-129 to A-182 *In* Malcolm E. Sumner (ed.) *Handbook of Soil Science*, CRC Press LLC, Boca Raton, FL.

Evetv, S.R., F.H. Peters, O.R. Jones, and P.W. Unger. 1999. Soil hydraulic conductivity and retention curves from tension infiltrometer and laboratory data. *In* M. Th. van Genuchten, F. J. Leij, and L. Wu (eds.). *Proc. Int. Workshop Characterization and Measurement of the Hydraulic Properties of Unsaturated Porous Media.* pp. 541-551. University of California, Riverside.

Tolk, J.A., T.A. Howell, and S.R. Evett. 1998. Evapotranspiration and yield of corn grown on three High Plains soils. *Agron. J.* 90(4):447-454.

Baumhardt, R.L., R.J. Lascano, and S.R. Evett. 1998. Laboratory calibration and evaluation of multisensor capacitance soil water probes. *Agron. Abstr.* p. 176

Todd, R.W., S.R. Evett, T.A. Howell, and J.A. Tolk. 1998. Canopy surface and stomatal resistances of alfalfa in a semi-arid advective environment. *Agron. Abstr.* p. 20.

Tolk, J.A., T.A. Howell, and S.R. Evett. 1998. Soil type effects on crop soil water extraction and water stress. *Agron. Abstr.* p. 15.

Evetv, S.R., T.A. Howell, R.W. Todd, A.D. Schnieder, and J.A. Tolk. 1998. Evapotranspiration of Irrigated Alfalfa in a Semi-Arid Environment. Presented at the 1998 Annual International Meeting Sponsored by ASAE. ASAE Paper No. 982123. ASAE, 2950 Niles Road, St. Joseph, MI 49085-9659 USA.

Evetv, S.R. 1998. The TACQ program for automatic measurement of water content and bulk electrical conductivity using time domain reflectometry. Presented at the 1998 Annual International Meeting Sponsored by ASAE. ASAE Paper No. 983182. ASAE, 2950 Niles Road, St. Joseph, MI 49085-9659 USA.

Howell, T.A., S. R. Evett, A.D. Schnieder, R.W. Todd, and J.A. Tolk. 1998. Evapotranspiration of irrigated fescue grass in a semi-arid environment. Presented at the 1998 Annual International Meeting Sponsored by ASAE. ASAE Paper No. 982117. ASAE, 2950 Niles Road, St. Joseph, MI 49085-9659 USA.

R.W. Todd, S.R. Evelt, and T.A. Howell. 1998. Latent heat flux of irrigated alfalfa measured by weighing lysimeter and Bowen ratio-energy balance. Presented at the 1998 Annual International Meeting Sponsored by ASAE. ASAE Paper No. 982119. ASAE, 2950 Niles Road, St. Joseph, MI 49085-9659 USA.

Evelt, S.R. 1998. Coaxial multiplexer for time domain reflectometry measurement of soil water content and bulk electrical conductivity. *Trans. ASAE* 41(2):361-369.

Schneider, A.D., T.A. Howell, T.A. Moustafa, S.R. Evelt, and W.S. Abou-Zeid. 1998. A simplified weighing lysimeter for monolithic or reconstructed soils. *Applied Engineer. Agric.* 14(3):267-273.

Howell, T.A., J.A. Tolk, A.D. Schneider, and S.R. Evelt. 1998. Evapotranspiration, yield, and water use efficiency of corn hybrids differing in maturity. *Agron. J.* 90(1):3-9.

Howell, T.A., A.D. Schneider, and S.R. Evelt. 1997. Subsurface and surface microirrigation of corn - Southern High Plains. *Trans. ASAE* 40(3):635-641

Howell, T.A., J.L. Steiner, A.D. Schneider, S.R. Evelt, and J.A. Tolk. 1997. Seasonal and maximum daily evapotranspiration of irrigated winter wheat, sorghum, and corn - Southern High Plains. *Trans. ASAE* 40(3):623-634.

Tolk, J.A., T.A. Howell, J.L. Steiner, and S.R. Evelt. 1997. Grain sorghum growth, water use, and yield in contrasting soils. *Agric. Water Mgmt.* 35:29-42.

Evelt, S.R., T.A. Howell, J.A. Tolk, and A.D. Schneider. 1997. Alfalfa evapotranspiration compared with reference ET. *Agron. Abstr.* p. 20.

Evelt, S.R., F.H. Peters, O.R. Jones, and P.W. Unger. 1997. Soil characteristic curves from tension infiltrometer and laboratory data. Program and Abstracts of the International Workshop on the Characterization and Measurement of the Hydraulic Properties of Unsaturated Porous Media, Oct. 22-24, 1997, Riverside, CA. p. 54.

Howell, T.A., and S.R. Evelt. 1997. Evapotranspiration of irrigated fescue grass compared with computed reference ET. *Agron. Abstr.* p. 20.

Tolk, J.A., T.A. Howell, and S.R. Evelt. 1997. Corn water use and yield response to growing season mulch and soil differences. *Agron. Abstr.* p. 13.

Evelt, S.R. 1996. Book Review: Crop-water-simulation models in practice. *Agric. Water Manag. J.* 33(1)83-84.

Evelt, S.R., T.A. Howell, A.D. Schneider, D.R. Upchurch, and D.F. Wanjura. 1996. Canopy temperature based automatic irrigation control. Pp. 207-213 *In* C.R. Camp, E.J. Sadler, and R.E. Yoder (eds.) *Proceedings of the International Conference on Evapotranspiration and Irrigation Scheduling*. Nov. 3-6, 1996, San Antonio, Texas, U.S.A. 1166 pp.

Howell, T.A., S.R. Evelt, J.A. Tolk, J.L. Steiner, and A.D. Schneider. 1996. Evapotranspiration of corn - Southern High Plains. Pp. 158-166 *In* C.R. Camp, E.J. Sadler, and R.E. Yoder (eds.)

Proceedings of the International Conference on Evapotranspiration and Irrigation Scheduling. Nov. 3-6, 1996, San Antonio, Texas, U.S.A. 1166 pp.

Lascano, R.J., R.L. Baumhardt, S.K. Hicks, S.R. Evett, and J.L. Heilman. 1996. Daily measurement and calculation of crop water use. Pp. 225-230 *In* C.R. Camp, E.J. Sadler, and R.E. Yoder (eds.) Proceedings of the International Conference on Evapotranspiration and Irrigation Scheduling. Nov. 3-6, 1996, San Antonio, Texas, U.S.A. 1166 pp.

Schneider, A.D., T.A. Howell, T.A. Moustafa, S.R. Evett, and W.S. Abou-Zeid. 1996. A simplified weighing lysimeter for developing countries. Pp. 289-294 *In* C.R. Camp, E.J. Sadler, and R.E. Yoder (eds.) Proceedings of the International Conference on Evapotranspiration and Irrigation Scheduling. Nov. 3-6, 1996, San Antonio, Texas, U.S.A. 1166 pp.

Schomberg, H.H., J.L. Steiner, S.R. Evett, and A.P. Moulin. 1996. Climatic influence on residue decomposition prediction in the wind erosion prediction system. *Theor. Appl. Climatol.* 54:5-16.

Evetv, S.R. 1995. Cooperative Research and Development Agreement no. 58-3K95-5-405. Time Domain Reflectometry for Automated, Real Time Measurement of Soil Water Content.

Evetv, S.R., F.H. Peters, O.R. Jones, and P.W. Unger. 1995. Dryland soil hydraulic properties affected by tillage and crop rotation. *Agron. Abst.* p. 197.

Lascano, R.J., R.L. Baumhardt, S.K. Hicks, S.R. Evett, J.L. Heilman, and C.H.M. Van Bavel. 1995. Real time measurement of cotton water use with an integrated system. *Agron. Abst.* p. 15.

Tolk, J.A., T.A. Howell, S.R. Evett, and A.D. Schneider. 1995. Evapotranspiration, growth and yield of a short season corn variety. *Agron. Abst.* p. 18.

Howell, T.A., J.A. Tolk, A.D. Schneider, and S.R. Evett. 1995. Water use and efficiency of two different maturity corn hybrids. *Agron. Abst.* p. 21.

Howell, T.A., A.T.A. Moustafa, W. Abou-Zeid, A.D. Schneider, and S.R. Evett. 1995. Water conservation with improved irrigation methods and management. Final Report, USDA-ARS, Conservation and Production Research Laboratory Report No. CPRL-95-10, Bushland, TX.

Howell, T.A., J.L. Steiner, A.D. Schneider, and S.R. Evett. 1995. Evapotranspiration of irrigated winter wheat - Southern High Plains. *Trans. ASAE* 38(3):745-759.

Evetv, S.R., T.A. Howell, A.D. Schneider, and J.A. Tolk. 1995. Crop coefficient based evapotranspiration estimates compared with mechanistic model results. Pp. 1585-1589. *In* W.H. Espey, Jr. and P.G. Combs (eds.) Vol. 2, Water Resources Engineering. Am. Soc. Civil Engr. Proc. First Internatl. Conf. Water Resour. Engineer., San Antonio, TX, Aug. 14-18.

Evetv, S.R., T.A. Howell, and A.D. Schneider. 1995. Energy and water balances for surface and subsurface drip irrigated corn. Pp. 135-140 *In* F.R. Lamm (ed.) Microirrigation for a Changing World: Conserving Resources/Preserving the Environment. Proc. Fifth Internatl. Microirrigation Congress, Orlando, Florida, April 2-6, 1995.

Evetv, S.R., and J.L. Steiner. 1995. Precision of neutron scattering and capacitance type moisture gages based on field calibration. *Soil Sci. Soc. Amer. J.* 59:961-968.

Evetv, S.R., A.W. Warrick, and A.D. Matthias. 1995. Wall material and capping effects on microlysimeter performance. *Soil Sci. Soc. Amer. J.* 59:329-336.

Evetv, S.R., T.A. Howell, and J.L. Steiner. 1994. Neutron scattering and capacitance type soil moisture gages: A field comparison. *Agron. Abst.* p. 246.

Durar, A.A., S.R. Evett, J.L. Steiner, and E.L. Skidmore. 1994. Soil hydraulic inputs of the HYDROLOGY submodel of WEPS. *Agron. Abst.* p. 353.

Tolk, J.A., T.A. Howell, J.L. Steiner, and S.R. Evett. 1994. Growth, water use, and yield of grain sorghum on soils with different hydraulic characteristics. *Agron. Abst.* p. 23.

Evetv, S.R. 1994. TDR-Temperature arrays for analysis of field soil thermal properties. Pp. 320-327 *In* Proceedings of the Symposium on Time Domain Reflectometry in Environmental, Infrastructure and Mining Applications, Sept. 7-9, 1994. Northwestern University, Evanston, Illinois.

Evetv, S.R., T.A. Howell, A.D. Schneider, K.S. Copeland, and D.A. Dusek. 1994. Energy and water balance modeling of winter wheat. Presented at the 1994 International Summer Meeting, Amer. Soc. Agric. Engr., Paper No. 94-2022, ASAE, 2950 Niles Rd., St. Joseph, MI 49085-9639.

Howell, T.A., J.L. Steiner, A.D. Schneider, S.R. Evett, and J.A. Tolk. 1994. Evapotranspiration of irrigated winter wheat, sorghum, and corn. Presented at the 1994 International Summer Meeting, Amer. Soc. Agric. Engr., Paper No. 942081, ASAE, 2950 Niles Rd., St. Joseph, MI 49085-9639.

Evetv, S.R., A.D. Matthias, and A.W. Warrick. 1994. Energy balance model of spatially variable evaporation from bare soil. *Soil Sci. Soc. Amer. J.* 58:1604-1611.

Durar, A.A., J.L. Steiner, S.R. Evett, and E.L. Skidmore. 1995. Measured and simulated surface soil drying. *Agron. J.* 87(2):235-244.

Howell, T.A., Schneider, A.D., Evett, S.R., and Stewart, B.A. 1994. Water conservation with improved irrigation methods and management. Project Review. 37 p. (handout)

Howell, T.A., J.L. Steiner, A.D. Schneider, and S.R. Evett. 1993. Evapotranspiration of irrigated winter wheat - Southern High Plains. ASAE Paper no. 93-2526. 28 p. Presented at the International Winter Meeting, ASAE, Dec. 14-17, Chicago Illinois.

Tunick, A., H. Rachele, F.V. Hansen, T.A. Howell, J.L. Steiner, S.R. Evett, and A.D. Schneider. 1994. REBAL '92 - A cooperative radiation and energy balance field study for imagery and E.M. propagation. *Bull. Amer. Meteo. Soc.* 75(3):421-430.

Evetv, S.R., T.A. Howell, J.L. Steiner, and J.L. Cresap. 1993. Evapotranspiration by soil water balance using TDR and neutron scattering. Pp. 914-921 *In* R.G. Allen and C.M.U. Neale (eds.)

Management of Irrigation and Drainage Systems, Integrated Perspectives. Am. Soc. Civil Engr., New York, NY. Proceedings of the National Conference on Irrigation and Drainage Engineering, Park City, UT, July 21-23, 1993.

Howell, T.A., J.L. Steiner, S.R. Evett, A.D. Schneider, K.S. Copeland, D.A. Dusek, and A. Tunick. 1993. Radiation balance and soil water evaporation of bare Pullman clay loam soil. Pp. 922-929 *In* R.G. Allen and C.M.U. Neale (eds.) Management of Irrigation and Drainage Systems, Integrated Perspectives. Am. Soc. Civil Engr., New York, NY. Proceedings of the National Conference on Irrigation and Drainage Engineering, Park City, UT, July 21-23, 1993.

Evetv, S.R., and R.J. Lascano. 1993. ENWATBAL.BAS: A mechanistic evapotranspiration model written in compiled BASIC. *Agron. J.* 85:763-772.

Evetv, S.R., T.A. Howell, J.L. Steiner, and J.A. Tolk. 1992. Measured and modeled soil and plant evaporation. *Proc. Symp. on Sap Flow Measurements*. Dynamax, Inc., Houston, TX. pp. 9-10.

Evetv, S.R., J.L. Steiner, T.A. Howell, and A.A. Durar. 1992. Water and energy balance of bare soil: Comparison of simulation models and weighing lysimeter data. *Agron. Abst.* p. 15.

Durar, A.A., J.L. Steiner, S.R. Evett, and E.L. Skidmore. 1992. Measured and simulated surface soil drying. *Agron. Abst.* p. 323.

Evetv, S.R., T.A. Howell, J.L. Steiner, and J.A. Tolk. 1991. Measured and modeled soil and plant evaporation. *Agron. Abst.* p. 16.

Evetv, S.R., and R.J. Lascano. 1990. ENWATBAL - A mechanistic evapotranspiration model written in compiled BASIC. *Agron. Abst.* p. 16.

Evetv, S.R. 1989. Field investigations of evaporation from a bare soil. Ph.D. dissertation, Dept. of Soil and Water Science, College of Agriculture, University of Arizona, Tucson, AZ 85721.

Evetv, S.R., and A.W. Warrick. 1987. Field Evaporation from Bare Soil: Microlysimeters Compared to IR Thermometry. *Agron. Abst.* p. 157.

Evetv, S.R., and A.W. Warrick. 1985. Field water balance for bare soil under nonuniform irrigation. *Agron. Abst.* p. 140.

Evetv, S.R., and G.R. Dutt. 1985. Length and slope effects on runoff from sodium dispersed, compacted earth microcatchments. *Soil Sci. Soc. Amer. J.* 49:734-738.

Evetv, S.R., and G.R. Dutt. 1985. Effect of slope and rainfall intensity on erosion from sodium dispersed, compacted earth microcatchments. *Soil Sci. Soc. Amer. J.* 49:202-206.

Evetv, S.R. 1983. Erosion and runoff from sodium dispersed, compacted earth microcatchments. M.S. thesis, Dept. of Soils, Water and Engineering, College of Agriculture, University of Arizona, Tucson, AZ 85721.