

- Adam, K. M. and **Erbach, D. C.** Secondary tillage tool effect on soil aggregation. *Trans. ASAE* 35(6), 1771-1776.
- Ahmad, N., Kanwar, R. S., **Kaspar, T. C.**, and Bailey, T. B. Effect of soil surface submergence and a water table on vegetative growth and nutrient uptake of corn. *Trans. ASAE* 35(4), 1173-1177.
- Banuelos, G. S., Mead, R., Phene, C. J., and **Meek, D. W.** Relations between phosphorus in drip irrigation water and selenium uptake by wild mustard. *J. Environ. Sci. Health* 27(1), 283-297.
- Brakensiek, D. L., Rawls, W. J., **Logsdon, S. D.**, and Edwards, W. M. Fractal description of macroporosity. *Soil Sci. Soc. Am. J.* 56(6), 1721-1723.
- Brown, H. J., Cruse, R. M., and **Erbach, D. C.** Tractive device effects on soil physical properties. *Soil Tillage Res.* 22, 41-53.
- Buhler, D. D.** Population dynamics and control of annual weeds in corn (*Zea mays*) as influenced by tillage systems. *Weed Sci.* 40, 241-248.
- Buhler, D. D.**, Gunsolus, J. L., and Ralston, D. F. Integrated weed management techniques to reduce herbicide inputs in soybean. *Agron. J.* 84, 973-978.
- Buhler, D. D.** and Proose, R. T. Influence of application time or imazethapyr bioactivity in no-tillage soybean (*Glycine max*). *Weed Sci.* 40, 122-126.
- Cambardella, C. A.** and Elliott, E. T. Particulate soil organic-matter changes across a grassland cultivation sequence. *Soil Sci. Soc. Am. J.* 56(3), 777-783.
- Collado, C. and **Karlen, D. L.** In-row soil aggregate characteristics for two Iowa soils. *Commun. Soil Sci. Plant Anal.* 23(13&14), 1559-1574.
- Erbach, D. C.**, Benjamin, J. G., Cruse, R. M., Elamin, M. A., Mukhtar, S., and Choi, C. H. Soil and corn response to tillage with paraplow. *Trans. ASAE* 35(5), 1347-1354.
- Forcella, F., Wilson, R. G., Renner, K. A., Dekker, J., Harvey, R. G., Alm, D. A., **Buhler, D. D.**, and Cardina, J. A. Weed seedbanks of the U.S. cornbelt: Magnitude, variation, emergence, and application. *Weed Sci.* 40, 636-644.
- Hatfield, J. L.** Review of instrumentation for studying vegetation canopies for remote sensing in optical and thermal infrared regions. Goel, N. S. and Norman, J. M. *Remote sensing review.* 648-650. 1992. *Bull. Am. Meteorol. Soc.*
- Hatfield, J. L.** The National Soil Tilth Laboratory: An introduction. *Soil Survey Horizons* 33(2), 23-29.
- Hatfield, J. L.** and Stewart, B. A. *Limitations to plant root growth.* 1992. Springer-Verlag, New York, NY. *Advances in Soil Sci.*

- Jaynes, D. B.** Estimating hysteresis in the soil water retention function. van Genuchten, M. T., Leij, F. J., and Lund, L. J. 219-232. 1992. 11-13 Oct. 1989. Riverside, CA. Proc. International Workshop on Indirect Methods for Estimating the Hydraulic Properties of Unsaturated Soils.
- Jaynes, D. B.**, Rice, R. C., and Hunsaker, D. J. Solute transport during chemigation of a level basin. *Trans. ASAE* 35(6), 1809-1815.
- Karlen, D. L.** and Colvin, T. S. Alternative farming system effects on profile nitrogen concentrations on two Iowa farms. *Soil Sci. Soc. Am. J.* 56(4), 1249-1256.
- Karlen, D. L.**, Eash, N. S., and Unger, P. W. Soil and crop management effects on soil quality indicators. *Am. J. Alter. Agric.* 7(1&2), 48-55.
- Kaspar, T. C.** and Bland, W. L. Soil temperature and root growth. *Soil Sci.* 154(4), 290-299.
- Kaspar, T. C.**, **Moorman, T. B.**, and **Logsdon, S. D.** The National Soil Tilth Laboratory and rhizotron. Reetz, Jr. 52-60. 1992. Proc. Conf. Potash and Phosphate Institute. Champaign, IL. 8-10 July 1992. Potash and Phosphate Inst., Atlanta, GA. Roots and plant nutrition.
- Kemper, W. D., Dabney, S., **Kramer, L. A.**, Dominick, D., and Keep, T. Hedging against erosion. *J. Soil Water Cons.* 47(4), 284-288.
- Kinney, G. R., **Erbach, D. C.**, and Bern, C. J. Soil strain under three tractor configurations. *Trans. ASAE* 35(4), 1135-1139.
- Laird, D. A.**, Barriuso, E., Dowdy, R. H., and Koskinen, W. C. Adsorption of atrazine on smectites. *Soil Sci. Soc. Am. J.* 56(1), 62-67.
- Lascano, R. J. and **Hatfield, J. L.** Spatial variability of evaporation along two transects of a bare soil. *Soil Sci.Soc.Am.J.* 56, 341-346.
- Logsdon, S. D.**, Allmaras, R. R., Nelson, W. W., and Voorhees, W. B. Persistence of subsoil compaction from heavy axle loads. *Soil Tillage Res.* 23, 95-110.
- Logsdon, S. D.** and Linden, D. R. Interactions of earthworms with soil physical conditions influencing plant growth. *Soil Sci.* 154(4), 330-337.
- Moorman, T. B.**, Becerril, J. M., Lydon, J., and Duke, S. O. Production of hydroxybenzoic acids by *Bradyrhizobium japonicum* strains after treatment with glyphosate. *J. Agric. Food Chem.* 40(2), 289-293.
- Moorman, T. B.**, Broder, M. W., and Koskinen, W. C. Kinetics of EPTC biodegradation and the effects of the inhibitor dietholate in solids. *Soil Biol. Biochem.* 24(2), 121-127.
- Mueller, T. C., **Moorman, T. B.**, and Snipes, C. E. Effect of concentration, sorption, and microbial biomass on degradation of the herbicide fluometuron in surface and subsurface soils. *J. Agric. Food Chem.* 40(12), 2517-2522.
- Pantona, D. J., Young, R. A., **Buhler, D. D.**, Eberlein, C. V., Koskinen, W. C., and Forcella, F. Water quality impacts associated with pre and postemergence applications of atrazine in corn. *J. Environ. Qual.* 21, 567-573.

- Parkin, T. B.** and Robinson, J. A. Analysis of lognormal data. Stewart, B. A. Advances in soil science. 193-225. Springer-Verlag, New York, NY.
- Parkin, T. B.** and Shelton, D. R. Spatial and temporal variability of carbofuran degradation in soil. *J. Environ. Qual.* 21(4), 672-678.
- Prieksat, M. A., Ankeny, M. D., and **Kaspar, T. C.** Design for an automated, self-regulating, single-ring infiltrometer. *Soil Sci. Soc. Am. J.* 56(5), 1409-1411.
- Shelton, D. R. and **Parkin, T. B.** Effect of moisture on sorption and biodegradation of carbofuran in soil. *J. Agric. Food Chem.* 39(11), 2063-2068.
- Singh, K. K., **Colvin, T. S.**, Erbach, D. C., and Mughal, A. Q. Tilth index: An approach to quantifying soil tilth. *Trans. ASAE* 35(6), 1777-1785.
- Smith, R. J., Chen, J., Akers, A., and **Erbach, D. C.** Computer simulation of a hydraulic drive for a soil bin. 8. ASAE Technical Paper Series 921687. International Off-Highway & Powerplant Congr. and Exposition, 14-17 Sept. 1992.
- Soenksen, P. J., **Hatfield, J. L.**, and Baker, J. L. Management systems evaluation area: Iowa - Walnut Creek watersheds. Water Fact Sheet, U.S. Geological Survey, Department of the Interior, U.S. Printing Office Open-File Report 92-167. (Leaflet).
- Starr, J. L., **Parkin, T. B.**, and Meisinger, J. J. Sample size consideration in the determination of soil nitrate. *Soil Sci. Soc. Am. J.* 56(6), 1824-1830.
- Steinheimer, T. R.** HPLC determination of atrazine and principal degradates in agricultural soils and associated surface and ground water. *J. Agric. Food Chem.* 41(4), 588-595.
- Timmons, D. R. and Baker, J. L. Fertilizer management effect on recovery of labeled nitrogen by continuous no-till. *Agron.J.* 84(3), 490-496.
- Vakili, N. G.** Biological seed treatment of corn with mycopathogenic fungi. *J. Phytopathol.* 134, 313-323.
- Vakili, N. G.** Sexual reproduction in *Sphaeronaemella Helvellae*. *Mycologia* 84(6), 849-856.
- Weimer, M. R., Balke, N. E., and **Buhler, D. D.** Herbicide clomazone does not inhibit *in vitro* geranylgeranyl synthesis from mevalonate. *Plant Physiol.* 98, 427-432.
- Wiegand, C. L., Maas, S. J., Aase, J. K., **Hatfield, J. L.**, Pinter, P. J., Jackson, R. D., Kanemasu, E. T., and Lapitan, R. L. Multisite analysis of spectral-biophysical data for wheat. *Remote Sens. Environ.* 42, 1-21.
- Yenish, J. P., Doll, J. D., and **Buhler, D. D.** Effects of tillage on vertical distribution and viability of weed seed in soil. *Weed Sci.* 40, 429-433.