

2001 Publications:

1131. **Amundson, G.B.**, E. Uscanga and **F. Forcella**. 2001. Glue retains seeds in shatter-prone weed seedheads. North Central Weed Sci. Soc. 56:22. [PDF: 7K](#).
954. **Archer, David W.**, **Frank Forcella**, **James J. Eklund** and Jeff Gunsolus. 2001. WeedCast Version 2.0. Available from: <http://www.weedcast.net>
959. **Archer, David W.** and Jason F. Shogren. 2001. Risk-indexed Herbicide Taxes to Reduce Ground and Surface Water Pollution: An Integrated Ecological Economics Evaluation. Ecological Economics 38 (2001): 227-250. [PDF: 304 K](#)
979. **Archer, D.W.**, D.L. Tanaka, J.M. Krupinsky, S.D. Merrill, R.E. Ries, J.R. Hendrickson, M.A. Liebig, and J.D. Hanson. 2001. Dynamic cropping systems: Economics and crop sequences. American Society of Agronomy Abstract a08-tanaka205125-P [CD-ROM computer file] ASA, Madison, WI.
935. DeJong-Hughes, J.F. Moncrief, **W.B. Voorhees** and J.B. Swan. 2001. Soil Compaction: Causes, Effects and Control. University of Minnesota Extension Service #FO-3115-S. 15 pp.
1142. Gao, F., Y. Jin, S. R. Yates, **S. Papiernik**, M. A. Anderson, and M. V. Yates. 2001. Theory and laboratory study of a tall passive chamber for measuring gas fluxes at soil surface. J. Air and Waste Manage. Assoc. 51:49-59.
931. **Gesch, Russ**, **Frank Forcella**, **Nancy Barbour**, and **Ward B. Voorhees**. 2001. Agricultural Management of Cuphea in the Upper Midwest. 92nd AOCs Annual Meeting and Expo-Abstracts. P. S72.
977. **Gesch, R.**, **B.S. Sharratt**, **D.W. Archer**, and N. Balachander. 2001. Performance of early planted polymer-coated maize seed. American Society of Agronomy Abstract. co3-gesch141533-P [CD-ROM computer file] ASA, Madison, WI.
956. **Gesch, Russ W.**, Vu, Joseph C.V., Allen Jr., L. H., Boote, Kenneth J. 2001. Photosynthetic responses of rice and soybean to elevated CO<sub>2</sub> and temperature. Recent Research Developments in Plant Physiology 2 (2001): 125-137. [PDF: 881 K](#)
1132. Gonzalez-Andujar, J.L., **F. Forcella**, G. Kegode, R. Gallagher and R. Van Acker. 2001. Modelizaci?n de la emergencia de plantulas de avena loca (Avena fatua L.) usando tiempo hidrotermal. p. 243-246. In Proc. Sociedad Espa?ola de Malherbolog?a Congreso 2001. Le?n, Spain. 20-22, Nov. 2001.

966. Hansen, N.C., J.F. Moncrief, S.C. Gupta, P.D. Capel, and **A.E. Olness**. 2001. Herbicide banding and tillage system interactions on runoff losses of alachlor and cyanazine. *J. Environ. Qual.* 30:2120-2126. [PDF: 97 K.](#)
1147. Ibekwe, A. M., **S. K. Papiernik**, J. Gan, S. R. Yates, D. E. Crowley, and C. -H. Yang. 2001. Microcosm enrichment of 1,3-dichloropropene-degrading soil microbial communities in a compost-amended soil. *J. Appl. Microbiol.* 91:668-676. [PDF: 292 K.](#)
1146. Ibekwe, A. M., **S. K. Papiernik**, J. Gan, S. R. Yates, C. -H. Yang, and D. E. Crowley. 2001. Impact of fumigants on soil microbial communities. *Appl. Environ. Microbiol.* 67:3245-3257.
1217. **Jaradat, A.A.** 2001. Genetic resources, management and horticultural aspects of date palm production using saline water resources in the GCC countries. 115 pp.
1218. **Jaradat, A.A.** 2001. Spatial and temporal genetic structure of wild emmer wheat in Jordan. I. Phenotypic traits. *Isr. J. Pl. Sci.* 49:s-53-s-64. [PDF: 248 K.](#)
1219. **Jaradat, A.A.** 2001. Spatial and temporal genetic structure of wild emmer wheat in Jordan. II. High-Molecular-Weight glutenins and allozymes. *Isr. J. Plant Sci.* 49: s-65-s-76. [PDF: 270 K.](#)
1253. **Lachniet, S.L.** and P.F. Hendrix. 2001. Interaction of the earthworm *Diplocardia mississippiensis* (Megascolecidae) with microbial and nutrient dynamics in a subtropical Spodosol. *Soil Biol. Biochem.* 33:1411-1417. [PDF: 120 K.](#)
957. Li, Y. and **M.J. Lindstrom**. 2001. Evaluating soil quality - soil redistribution relationship on terraces and steep hillslope. *Soil Sci. Am. J.* 65:1500-1508. [PDF: 331 K.](#)
992. Li, Y., **M.J. Lindstrom**, M. Frielinghaus and H.R. Bork. 2001. Quantifying the Spatial Patterns of Soil Redistribution and Soil Quality on two Contrasting Hillslopes.. pp. 556-563 in: D.E. Stott, R.H. Mohtar and G. C. Steinhardt (eds). *Sustaining the Global Farm. Selected papers from the 10th International Soil Conservation Organization Meeting.*
968. Li, Y, **M.J. Lindstrom**, J. Zhang and J. Yang. 2000. Spatial variability of soil erosion and soil quality on hillslopes in the Chinese Loess Plateau. *Acta Geologica Hispanica* 35(3-4): 261-270.
916. Lin, C., D.K. McCool, D.C. Flanagan, and **B.S. Sharratt**. 2001. An energy budget approach to simulate snow melt and soil frost depth. pg. 611-614. In: *Soil Erosion Research for the 21st Century. Symposium Proceedings. January 2001.*

1186. **Lindstrom, M.J.**, D.A. Lobb and T.E. Schumacher. 2001. Tillage erosion: An overview. *Annals of Arid Zone*. 40(3):337-349. [PDF: 273 K.](#)
924. Liu, G., **M.J. Lindstrom**, X. Zhang, Y. Li, and J. Zhang. 2001. Conservation Management Effects on Soil Erosion Reduction in the Sichuan Basin, China. *J. Soil and Water Conservation* 56(2): 144-147.
1143. Ma, Q., J. Gan, J.O. Becker, **S.K. Papiernik** and S.R. Yates. 2001. Evaluation of propargyl bromide for contrl of barnyardgrass and *Fusarium oxysporum* in three soils. *Pest. Manag. Sci.* 57:781-786. [PDF: 132 K.](#)
1144. Ma, Q., J. Gan, **S. K. Papiernik**, J. O. Becker, and S. R. Yates. 2001. Degradation of soil fumigants as affected by initial concentration and temperature. *J. Environ. Qual.* 30:1278-1286. [PDF: 220 K.](#)
- 917 McIntosh, G.C. and **B.S. Sharratt**. 2001. Over winter stability of macropores in the Northern US Corn Belt. pp. 221-224. In: *Preferential Flow: Water movement and chemical transport in the Environment. Symposium Proceedings.* January 2001.
964. McIntosh, G. and **B.S. Sharratt**. 2001. Thermal properties of soil. *The Physics Teacher* 39:458-460.
933. **Olness, Alan**. 2001. USDA's Nitrogen Decision Aid: Will it Work with Cotton? *Cotton Grower Plus* (Jan/Feb): 12-13.
972. **Olness, A.** 2001. Using resin-extraction of soil nutrients for genotype selection and fertility management. pp. 738-739. In: W.J. Horst et al. (ed.) *Plant nutrition: Food security and sustainability of agro-ecosystems through basic and applied research.* Kluwer Academic Publishers.
961. **Olness, A.** and **D. Archer**. 2001. Factors Affecting Microbial Formation of Nitrate-N in Soil and Their Effect on Fertilizer-N Use Efficiency. p. 37. In: *N2001 The Second International Nitrogen Conference. Conference Symposium.*
982. **Olness, A., R.W. Gesch, F. Forcella, D. Archer,** and **J.L. Rinke**. 2001. Effect of vanadium on development of chlorosis and root growth of cuphea. *American Society of Agronomy Abstract* c03-olness093725-P [CD-ROM computer file] ASA, Madison, WI.
930. **Olness, Alan, Russell Gesch, Frank Forcella, David Archer** and **W.B. Voorhees**. 2001. Effect of Vanadium and Nutrient Ionic Ratios on Growth and Development of Cuphea. 92nd

981. **Olness, A.**, M. Leisure, H. Weiser, B. Kunze, and **J.L. Rinke**. 2001. Assessment of active soil inorganic chemistry through resin-extraction of four soils. American Society of Agronomy Abstract s02-olness095820-O [CD-ROM computer file] ASA, Madison, WI.
967. **Olness, A.**, D. Lopez, D. Archer, J. Cordes, C. Sweeney, N. Mattson, **J. Rinke** and **W.B. Voorhees**. 2001. Factors affecting microbial formation of nitrate-nitrogen in soil and their effects on fertilizer nitrogen use efficiency. In Optimizing Nitrogen Management in Food and Energy Production and Environmental Protection: Proceedings of the 2nd International Nitrogen Conference on Science and Policy. TheScientificWorld 1(S2):122-129.
975. **Olness, A.** D. Lopez, C. Sweeney, N. Mattson, J. Cordes and **W.B. Voorhees**. 2001. Tailoring fertilizer nitrogen applications to crop needs. American Chemical Society Abstracts. 61:125.
958. **Olness, A.** D. Palmquist and **J. Rinke**. 2001. Ionic Ratios and Crop Performance: II. Effects of Interactions Amongst Vanadium, Phosphorus, Magnesium and Calcium on Soybean Yield. J. Agronomy & Crop Science 187: 47-52. [PDF: 120 K.](#)
973. **Olness, A.**, **W. Voorhees**, D. Lopez, C. Sweeney, N. Mattson, and J. Cordes. 2001. Tailoring fertilizer/nitrogen applications to crop needs: The USDA-ARS N fertilizer decision aid. AOAC Abstract. p. 71.
1149. **Papiernik, S. K.** 2001. A review of in situ measurement of organic compound transformation in groundwater. Pest Manag. Sci. 57:325-332. [PDF: 178 K.](#)
1148. **Papiernik, S. K.**, S. R. Yates, and J. Gan. 2001. An approach for estimating the permeability of agricultural films. Environ. Sci. Technol. 35:1240-1246. [PDF: 99 K.](#)
922. Pikul Jr., Joseph L., **Lynne Carpenter-Boggs**, Merle Vigil, Thomas E. Schumacher, **Michael J. Lindstrom** and Walter E. Riedell. 2001. Crop Yield and Soil Condition Under Ridge and Chisel-plow Tillage in the Northern Corn Belt, USA. Soil & Tillage Research 60: 21-33. [PDF: 118 K.](#)
970. **Reicosky, D.C.** 2001. Conservation agriculture: Global environmental benefits of soil carbon management. pp. 3-12. In: L. Garcia-Torres, J. Benites, and A. Martinez-Vilela (ed.) Conservation agriculture: A worldwide challenge. XUL, Cordoba, Spain.
994. **Reicosky, D.C.** 2001. Effects of Conservation Tillage on Soil Organic Carbon Dynamics: Field Experiments in the U.S. Corn Belt. pp. 481-485. In: D.E. Stott, R. H. Mohtar and G.C.

Steinhardt (eds). Sustaining the Global Farm. Selected papers from the 10th International Soil Conservation Organization Meeting.

1309. **Reicosky, D.C.** and **M.J. Lindstrom**. 2001. Tillage-induced CO<sub>2</sub> loss and climate change. pp. 77-92. In: 44th Annual Manitoba Soil Science Society Meeting. Jan. 23-25, 2001, Manitoba Soil Science Society, Winnipeg, Manitoba, Canada.
978. **Reicosky, D.C., M.J. Lindstrom**, T.E. Schumacher, and D.D. Malo. Spatial Variability of Short-Term Carbon Loss after Tillage. 2001. American Society of Agronomy Abstract. s06-reicosky085730-O [CD-ROM computer file] ASA, Madison, WI.
962. **Sharratt, B.S.** 2001. Field assessment of soil properties affecting runoff and erosion during spring thaw in the northern U.S. Corn Belt. p. 23. In: Snowmelt Erosion and Related Problems. Symposium Proceedings. March 2001.
918. **Sharratt, B.S.** 2001. Groundwater recharge during spring thaw in the prairie pothole region via large, unfrozen preferential pathways. pg. 49-52. In: Preferential Flow. Water movement and chemical transport in the environment. Symposium Proceedings. January 2001.
980. **Sharratt, B.** 2001. Potential for runoff from spring vs. autumn precipitation in the northern U.S. Corn Belt. American Society of Agronomy Abstract a03-sharratt125127-P [CD-ROM computer file] ASA, Madison, WI.
932. **Sharratt, B.S., R. W. Gesch, F. Forcella**, and **W.V. Voorhees**. 2001. Water Use and Water Use Efficiency of Cuphea. 92nd AOCs Annual Meeting and Expo-Abstracts. P. S72.
915. **Sharratt, B.S.** and **M.J. Lindstrom**. 2001. Laboratory simulation of erosion from a partially frozen soil. pg. 159-162. In: Soil Erosion Research for the 21st Century. Symposium Proceedings. January 2001.
920. **Sharratt, B. S.**, J. Zandlo and G. Spoden. 2001. Frequency of Precipitation Across the Northern U.S. Corn Belt. J. Applied Meteorology 40:183-191.
923. **Voorhees, Ward B.** 2001. Foreword to The 15th Conference of the International Soil Tillage Research Organization. Soil and Tillage Research 61: 1-2. [PDF: 36 K.](#)
988. **Voorhees, Ward B.** 2001. The "What, How, and So What?" of Soil Compaction.. 21st Annual Crop Pest Management Short Course Proceedings. November 19-20, 2001. 5 pages.
929. Vu, Joseph C. V., **Russ W. Gesch**, Arja H. Pennanen, m L. Hartwell Allen, Jr., Kenneth J.

Boote, George Bowes. 2001. Soybean Photosynthesis, Rubisco, and carbohydrate Enzymes Function at Supraoptimal Temperatures in Elevated CO<sub>2</sub>. *J. Plant Physiol.* 158: 295-307. [PDF: 149 K.](#)

1145. Wang, Q., J. Gan, **S. K. Papiernik**, and S. R. Yates. 2001. Isomeric effects on thiosulfate transformation and detoxification of 1,3-dichloropropene. *Environ. Toxicol. Chem.* 20:960-964.