

Book Chapters

- Andraski, B.J., B. Lowery, and K. McSweeney. 1986. Effect of soil water status on crop productivity within an erosional landscape. *Trans. 13th Cong. Int. Soil Sci. Soc.* 2:2-3. 13-20 Aug. 1986, Hamburg, Germany.
- Arriaga, F.J., and B. Lowery. 1999. Effects of erosion and manure applications on corn production. *Proc. International Soil Conservation Organization, 10th Conference*, Purdue University, Indiana.
- Arriaga, F.J., and B. Lowery. 2000. Some environmental implications when restoring crop productivity of eroded land with manure. *Proc. 2000 Fertilizer, Aglime and Pest Mgmt. Conf.* 39:371-380, Madison, WI.
- Arriaga, F.J., and B. Lowery. 2002. A three-dimensional representation of soil profile depth and crop yield over an eroded landscape. *In Proc. 12th International Soil Conservation Organization Conf.* 4:287-390, Beijing, China, 26-31 May 2002
- Arriaga, F.J., D.J. Reinert, B. Lowery, and K. McSweeney. 2002. Development of three-dimensional maps of eroded soil with data from a profile cone penetrometer. (CD-ROM): p. 1390.1-7. *International Union of Soil Science, 17th World Congress of Soil Science*, 14-21 Aug., Bangkok, Thailand.
- Arriaga, F.J., and B. Lowery. 2003. Erosion and productivity. p. 222-224. *In* B.A. Stewart and T. Howell (eds.) *Encyclopedia of water science*. Marcel Dekker, Inc., New York, NY.
- Arshad, M.A., B. Lowery, and B. Grossman. 1996. Physical tests for monitoring soil quality. p. 123-141. *In* J.W. Doran and A.J. Jones (ed.) *Methods for assessing soil quality*. SSSA Spec. Publ. 35. ASA and SSSA, Madison, WI.
- Biggelaar, C. den, R. Lal, K. Wiebe and V. Breneman. 2001. Impact of soil erosion on crop yields in North America. *Advances in Agronomy* 72: 1-52.
- Cihacek, L.J. and M.G. Ulmer. 1995. Chap. 7. Estimated soil organic long-term crop fallow in the northern Great Plains of the USA. P. 85-92. *In* R. Lal, J. Kimble, E. Levine and B.A. Stewart (eds). *Soil management and greenhouse effect – Advances in Soil Sci.* CRC Press, Inc, Boca Raton, FL.
- Cihacek, L.J. and M.G. Ulmer. 1997. Effects of tillage on profile soil carbon distribution in the northern Great Plains of the U.S. Chapter 6 *In* R. Lal, J.M. Kimble, R.F. Follett, and B.A. Stewart (eds). *Management of Carbon Sequestration in Soils*, CRC Press, Boca Raton, FL.
- Doran, J.W., A.J. Jones, M.A. Arshad, and J.E. Gilley. 1998. Determinants of soil quality and health, Chapter 2. pp 17-39. *In* R. Lal (ed). *Soil Quality and Soil Erosion*, CRC Press, Boca Raton, FL.

- Fenton, T.E. . 2002. Land Capability Classification.. In. R. Lal ed. Encyclopedia of Soil Science. Marcel Dekker, Inc.
- Fenton, T.E., J.R. Brown, and M.J. Mausbach. 1998. Effects of long term cropping on organic matter contents of soils-Implications for soil quality. pp. 95-124. In R. Lal, ed., Soil Quality and Erosion. CRC Press, Boca Raton, FL.
- Fenton, T. E. 2002. Rendiza In. R. Lal ed. Encyclopedia of Soil Science. Marcel Dekker, Inc.
- Gennadiyev, A.N., K.R. Olson, Chernyanskii, S.S., R.L. Jones, J.M. Lang and W.I. Woods. 2002. The use of the fly ash for the quantitative- chronological assessment of soil matter mechanical migration (by the example of Cahokia mounds, USA). p. 370-388. In. N. S. Kasimov and M.I. Gerasimova (eds). Landscape Geochemistry and Soil Geography. Faculty of Geography, Moscow State University Press.
- Ginting D., J.F. Moncrief, S.C. Gupta, S.D. Evans, G.A. Nelson, and E.C. Dorsey. 1998. Influence of Residue Management Tillage Systems with Solid Beef Manure Application on Snow Melt and Annual Runoff, Sediment, and Phosphorus Losses. In: Manure Management in Harmony with the Environment and Society, pg. 206-210. Soil and Water Conservation Society and Iowa State University, Ames, Iowa.
- Hajek, B.F., D.L. Karlen, B. Lowery, J.F. Power, T.E. Schumacher, E.L. Skidmore, and R.E. Sojka. 1990. Erosion and soil properties. *In* Proceedings of soil erosion and productivity workshop. Ed. W.E. Larson, G.R. Foster, R.R. Allmaras, and C.M. Smith. Univ. Minnesota, St. Paul, MN.
- Huggins, D.R., D.L. Allan, J.C. Gardner, D.L. Karlen, D.F. Bezdicek, M.J. Rosek, M.J. Alms, M. Flock, B. Miller and M.L. Staben. 1997. Enhancing carbon sequestration in CRP-managed land. *In* B.A. Kimble et al (eds). Carbon Sequestration in Soils (In press).
- Jones, A.J., R.A. Selley and L.N. Mielke. 1997. Strategies for erosion control and profitability for CRP. p. 27 *In* Converting CRP-land to cropland and grazing: conservation technologies for the transition. Soil and Water Conservation Society, Ankeny, Iowa.
- Jones, A.J., J.C. Siemens, W.B. Voorhess, R.D. Grisso and T.E. Schumacher. 1995. Chap 14. Soil Compaction. P. 61-64. *In* W.C. Moldenhauer and L.N. Mielke (eds). Crop residue management to reduce erosion and improve soil quality: North Central. USDA-ARS Conservation Research Report Number 42.
- Jones, A.J. and R.A. Selley. 1995. CRP Conversion: Soil erosion control and profitability considerations. Section H-3. 4 pp. *In* CRP Reference Handbook. Nebraska Cooperative Extension.

- Jones, A.J., R.A. Selley and L.N. Mielke. 1997. Multiple-objective decision support strategies for cropping steep land. *In* S. El-Swaify (ed). Multiple objective decision support systems for land, water, and environmental management. (In Review)
- Kaspar, T.C., T.S. Colvin, D.B. Jaynes, D.L. Karlen, D.E. James, D.W. Meek, D. Pulido, and H. Butler. 2000. Estimating corn yield using six years of yield data and terrain attributes. *In* P.C. Robert et al. (ed.) Proceedings of the Fifth International Conference on Precision Agriculture and Other Resource Management, Bloomington, MN. 16-19 July 2000. [CD-ROM] ASA, CSSA, and SSSA, Madison, WI.
- Lal, R. 1998. Soil quality and food security: The Global Perspective, Chapter 1. p 3-16. *In* R. Lal (ed). Soil Quality and Soil Erosion, CRC Press, Boca Raton, FL.
- Lal, R. 1998. Erosion Impact on Soil Quality in the Tropics, Chapter 16. pp 285-308. *In* R. Lal (ed). Soil Quality and Soil Erosion, CRC Press, Boca Raton, FL.
- Lal, R. 1998. Applying Soil Quality Concepts for Combating Soil Erosion, Chapter 17. pp. 309-317. *In* R. Lal (ed). Soil Quality and Soil Erosion, CRC Press, Boca Raton, FL.
- Lal, R., D. Mokma, and B. Lowery. 1998. Relation between Soil Quality and Erosion, Chapter 14. pp 237-258. *In* R. Lal (ed). Soil Quality and Soil Erosion, CRC Press, Boca Raton, FL.
- Lindstrom, M.J., T.E. Schumacher, G.D. Lemme and W.B. Voorhees. 1994. Corn production and soil erosion after sod on an eroded landscape as affected by tillage. P. 43-48. *In* Jensen et al. (eds). Proc. 13th Conf. of Int. Soil Tillage Res. Organization, Vol. 1, Aalborg, Denmark.
- Lindstrom, M.J., T.E. Schumacher, D.C. Reicosky, and D.L. Beck. 1998. Soil Quality: Post Conservation Reserve Program Changes with Tillage and Cropping. Chapter 8. pp. 143-152. *In* R. Lal (ed). Soil Quality and Soil Erosion, CRC Press, Boca Raton, FL.
- Lindstrom, M.J., T.E. Schumacher and J.A. Schumacher. 1998. Tillage induced soil translocation and sustainable production systems. pp. 56-64. *In*: Proc. Workshop on Sustainable Tillage Systems. Auburn, AL.
- Lindstrom, M.J., W.B. Voorhees, and T.E. Schumacher. 1995. Soil Properties Across A Landscape Continuum as Affected by Planting Wheel Traffic. *In* Site Specific Management for Agricultural Systems ASA-CSSA-SSA, Madison, WI

- Lowery, B., M.A. Arshad, R. Lal, and W.J. Hickey. 1996. Soil water parameters and soil quality. p. 143-155. In J.W. Doran and A.J. Jones (ed.) Methods for assessing soil quality. SSSA Spec. Publ. 35. ASA and SSSA, Madison, WI.
- Lowery, B., G.L. Hart, J.M. Bradford, K-J.S. Kung, and C. Hang. 1998. Erosion impact on soil quality and properties and model estimates of leaching potential. p. 75-91. In R. Lal (ed) Soil quality and soil erosion. CRC Press LLC, Boca Raton, FL.
- Lowery, B., B.J. Andraski, and W.H. Paulson. 1990. Best management practices for an eroded soil. Trans. 14th Cong. Int. Soil Sci. Soc. 7:380-381. 12-18 Aug. 1990, Kyoto, Japan.
- McSweeney, K., B. Lowery, G.S. LeMasters, and B.J. Andraski. 1986. Selected applications of information on soil horizon distribution. Trans. 13th Cong. Int. Soil Sci. Soc. 3:1205-1206. 13-20 Aug. 1986, Hamburg, Germany.
- Moncrief, J.F. and N.C. Hansen. 2002. Managing Soil and Water for Crop Production and Meeting Water Quality Challenges. Proceedings of the 1st annual Agricultural Drainage and Water Quality Field Day, College of Agriculture, Food, and Environmental Sciences, University of Minnesota, St Paul, MN pg 18-29.
- Norton, D., I. Shainberg, L. Cihacek, and J.H. Edwards. 1998. Erosion and Soil Chemical Properties. Chapter 3. . In R. Lal (ed). Soil Quality and Soil Erosion, CRC Press, Boca Raton, FL.
- Olson, K.R. 1995. Soil formation, erosion, and productivity. Chapter 9. p.188-214. In G. McIsaac and W. R. Edwards (eds.) Sustainable agriculture in eastern North America: Lessons from natural and human history, prospects for the future. University of Illinois Press. Urbana, IL.
- Olson K.R. and R. L Jones. 2001. Use of fly ash as time marker in soil erosion and sedimentation studies. p. 1059-1061 In. D.E. Stott, R.H. Mohtar and G.C.
- Olson, K.R., D.L. Mokma, R. Lal, T.E. Schumacher, and M.J. Lindstrom. 1998. Soil Erosion and Soil Quality. Chapter 15. pp 259-284. In R. Lal (ed). Soil Quality and Soil Erosion, CRC Press, Boca Raton, FL.
- Olson, K.R. 2002. Soils and Geology. p. 604-606. In. R. Lal ed. Encyclopedia of Soil Science. Marcel Dekker, Inc.
- Olson, K.R. 2002. Soils and Modern Civilization. p. 840-843. In. R. Lal ed. Encyclopedia of Soil Science. Marcel Dekker, Inc
- Olson, K.R., R.L. Jones, A.N. Gennadiyev, S. Chernyanskii, and W.I. Woods. 2002. Soil formation on a Mississippian mound in Illinois, USA., 17th World Congress Soil Science. Symposium 18. Bangkok, Thailand. p. 265.1- 265.11.

- Pikul, J.L., Jr., T.E. Schumacher, M. Vigil. 2001. Nitrogen use and carbon sequestered by corn rotations in the northern corn belt, U.S. In *Optimizing Nitrogen Management in Food and Energy Production and Environmental Protection: Proceedings of the 2nd International Nitrogen Conference on Science and Policy*. The Scientific World 1 (S2), 707-713.
- Schumacher, T.E., E.L. Skidmore, B.F. Hajek, D.L. Karlen, B. Lowery, J.F. Powers, and R.E. Sojka. 1990. Erosion and soil properties. p. 13-25. In W.E. Larson et al. (ed.) *Proc. of the Soil Erosion and Productivity Workshop*. Univ. of Minnesota Press, St. Paul, MN.
- Schumacher, T.E. 2002. Tillage Erosion: Properties and Productivity. In: *Encyclopedia of Soil Science*, ed. R. Lal pp.1052-1054, Marcel Dekker, New York.
- Schumacher, T.E., Lindstrom, M.J., Blecha, M.L., Cogo, N.P., Clay, D.E., Bleakley, B.H. 1995. Soil management after CRP contracts expire. Clean water, clean environment, 21st century team agriculture, working to protect water resources conference proceedings, March 5-8, 1995, Kansas City, Missouri /. St. Joseph, Mich. : ASAE, v. 3 p. 239-242.
- Schumacher, T.E. and M.J. Lindstrom. 1997. Agricultural management of environmentally sensitive lands a perspective from the northern great plains. *Ochrona I Wykorzystanie Rolniczej Przestrzeni Produkcyjnej Polski* Materiały konferencji naukowej Pulawy 3-4 czerwca 1997. Pulawy Poland