

## **Publications and Theses**

Wet Soil Monitoring Project  
National Soil Survey Center  
USDA-Natural Resources Conservation Service  
Lincoln, Nebraska

Compiled by Steven Sprecher (NRCS) in consultation  
with principle recipients of funding

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## **Alaska**

### **Peer Reviewed Articles**

Bridgham, S.D., C-L. Ping, J.L. Richardson, and K. Updegraff. 2000. Ch. 16. Soils of northern peatlands: Histosols and Gelisols. p.343-370. *In* J.L. Richardson and M.J. Vepraskas (ed.) *Wetland soils: Genesis, morphology, hydrology, landscapes, and classification*. Lewis Publishers, Boca Raton, FL.

Clark, M.H., and C.L. Ping. 1997. Hydrology, morphology, and redox potentials in four soils of south central Alaska. p. 113-131. *In* M.J. Vepraskas and S.W. Sprecher (ed.) *Aquic conditions and hydric soils: The problem soils*. Soil Sci. Soc. Am. Spec. Pub.50. SSSA, Madison, WI.

D'Amore, D.V., and W.C. Lynn. 2002. Classification of forested Histosols in southeast Alaska. *Soil Sci. Soc. Am. J.* 66:554-562.

Fellman, J.B., and D.V. D'Amore. 2007. Nitrogen and phosphorus mineralization in three wetland types in southeast Alaska, USA. *Wetlands* 27(1):44-53.

McDaniel, P.A., J.H. Huddleston, C.L. Ping, and S.L. McGreehan. 1997. Aquic conditions in Andisols of the northwest US. p. 99-111. *In* M.J. Vepraska and S.W. Sprecher (ed.) *Aquic conditions and hydric soils: The problem soils*. Soil Sci. Soc. Am. Special Pub. 50. SSSA, Madison, WI.

Michaelson, G. J., C.L. Ping, and J.M. Kimble. 1996. Carbon storage and distribution in tundra soils in arctic Alaska. *Arctic and Alpine Research* 28(4):414-424.

Paetzold, R.F., K.M. Hinkel, F.E. Nelson, T.E. Osterkamp, C.L. Ping and V.E. Romanovsky. 2000. Chapter 16. Temperature and thermal properties of Alaskan soils. p. 223-245. *In* R. Lal et al. (ed.) *Global change and cold regions ecosystems*. Lewis Publishers, Boca Raton, FL.

Ping, C.L., W.C. Lynn, and C.A.S. Smith. 1993. Redoximorphic features in permafrost soils. p. 233-244. *In* D. Gilichinsky (ed.) *Post-seminar proceedings, Joint Russian-American Seminar on Cryopedology and Global Change*. Nov. 15-16, 1992, Pushchino Research Center. Russian Academy of Sciences, Moscow, Russia.

Ping, C-L, G.J. Michaelson, and J.M. Kimble. 1997. Carbon storage along a latitudinal transect in Alaska. *Nutrient Cycling in Agroecosystems* 49:235-242.

Ping, C.L., G.J. Michaelson, E.C. Packee, C.A. Stiles, D.K. Swanson, and K. Yoshikawa. 2005. Soil catena sequences and fire ecology in the boreal forest of Alaska. *Soil Sci. Soc. Am. J.* 69:761-1772.

Ping, C.L., and J.P. Moore. 1992. Classification and wetland characteristics of permafrost soils. p. 198-205. *In* J.M. Kimble (ed.) *Proceedings of the VIII International Soil Correlation Meeting, Classification and Management of Wet Soils*. USDA, Soil Cons. Service, Nat. Soil Survey Center, Lincoln, NE.

### **Ph.D. Dissertations**

None found

### **M.S. Theses**

Clark, M.H. 1995. Hydrology, morphology, and redox potentials in four soils of south central Alaska. M.S. Thesis. University of Alaska Fairbanks.

### **Other**

Ping, C.L., M.H. Clark, and G.J. Michaelson. 1996. Preliminary investigations of hydric soil hydrology and morphology in Alaska. p. 142-152. *In* J.S. Wakeley et al. (ed.) *Preliminary investigations of hydric soil hydrology and morphology in the United States*. Wetlands Research Program Technical Report WRP-DE-13. US Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS.

Ping, C.L., J.M. Kimble, and L.P. Wilding. 1998. Hydric properties of tundra soils in Arctic Alaska. p. 104. *In* Abstract, Society of Wetland Scientists, 19th Annual Meeting, June 8-12, 1998. Anchorage, AK.

# Indiana

## Peer Reviewed Articles

Doolittle, J. A., B.J. Jenkinson, D.P. Franzmeier, and W. Lynn. 2000. Improved radar interpretations of water table depths and groundwater flow patterns from predictive equations. p. 488-493. *In* Noon et al. (ed.) Proc. Eighth Intern. Conf. on Ground-Penetrating Radar. May 23 to 26, 2000. Goldcoast, Queensland, Australia. SPIE Vol. 4084.

Doolittle J.A., B. Jenkinson, D. Hopkins, M. Ulmer, and W. Tuttle. 2006. Hydropedological investigations with ground-penetrating radar (GPR): estimating water-table depths and local ground water flow pattern in areas of coarse-textured soils. *Geoderma* 131(3/4):317-329.

Jenkinson, B.J., and D.P. Franzmeier. 2006. Development and evaluation of iron-coated tubes that indicate reduction in soils. *Soil Sci. Soc. Am. J.* 70:183-191.

Jenkinson, B.J., D.P. Franzmeier, and W.C. Lynn. 2002. Soil hydrology on an end moraine and a dissected till plain in west-central Indiana. *Soil Sci. Soc. Am. J.* 66:1367-1376.

## Patent

Jenkinson, B.J., and D.P. Franzmeier. 2004. Indicator device for soil. Official Gazette of the United States Patent and Trademark Office Patents. 2004:1284(4)

## Ph.D. Dissertations

Jenkinson, Byron Jeremiah. 2002. Hydrology of sandy soils in northwest Indiana and iron oxide indicators to identify hydric soils. Ph.D. Diss. Purdue Univ., West Lafayette, IN. 178 pages.

## M.S. Theses

Jenkinson, Byron J. 1998. Wet soil monitoring project on two till plains in south and west central Indiana. MS Thesis. Purdue Univ., West Lafayette, IN.

## Other

Jenkinson, B.J., and D.P. Franzmeier. 1996. Soil moisture regimes of some toposequences in Indiana. p. 49-68. *In* J.S. Wakeley et al. (ed.) Preliminary investigations of hydric soil hydrology and morphology in the United States. Wetlands Research Program Technical Report WRP-DE-13. US Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS.

## **Louisiana**

### **Peer Reviewed Articles**

Szogi, A. A., and W. H. Hudnall. 1994. Water chemistry of two hydric soils of southern Louisiana. *Internat. J. of Ecology and Envir. Sciences* 20:1-14.

Szogi, A.A., and W.H. Hudnall. 1998. Soil morphology and frequency of diagnostic wet soil conditions. p. 61-76. *In* M.C. Rabenhorst et al. (ed.) *Quantifying soil hydromorphology*. Soil Sci. Soc. Am. Soc. Spec. Publ. No. 54. SSSA, Madison, WI.

### **Ph.D. Dissertations**

Huang, Jang-Hung. 2001. Effects of energy source and soil reaction on redox, soil color, and sesquioxide transformation for the Moreland and Sharkey soils. Ph.D. Diss. Louisiana State Univ., Baton Rouge, LA.

Patterson, William Brown. 1997. Vegetation, soils, and hydrology of central Louisiana bottomland hardwood forest types. Ph.D. Diss. Louisiana State Univ., Baton Rouge, LA.

Szogi, Ariel Alejandro. 1992. A study on the aquic conditions of two Natraqualfs in the coastal plain of Louisiana. Ph.D. Diss. Louisiana State Univ., Baton Rouge, LA.

### **M.S. Theses**

Prudente, Jacqueline Avellanoza. 1986. Defining growing season using soil temperature. M.S. Thesis. Louisiana State Univ., Baton Rouge, LA.

### **Other**

Hudnall, W.H., and A.A. Szogi. 1991. A study of the soil aquic conditions in Louisiana. p. 143-149. *In* Report of projects. Dept. of Agronomy, LAES, LSU Agricultural Center. Baton Rouge, LA,.

Hudnall, W.H., and A.A. Szogi. 1996. Seasonally wet soils of Louisiana. p. 31-48, *In* J.S. Wakeley et al. (ed.) *Preliminary investigations of hydric soil hydrology and morphology in the United States*. Wetlands Research Program Technical Report WRP-DE-13. US Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS.

Hudnall, W.H., A. Szogi, B.A. Touchet, J. Daigle, J.P. Edwards, and W.C. Lynn. 1990. VIII International Soil Correlation Meeting. Classification and management of wet soils. Guidebook for Louisiana. USDA Soil Cons. Service, Midwest Nat. Tech. Center. Lincoln, Nebraska., 144 p.

Hudnall, W.H., L.M. West, and J.J. Daigle. 1997. Wet and seasonal wet soils. Guidebook. National soil conference. Baton Rouge, LA. 87 p.

Szogi, A.A., and W.H. Hudnall. 1989. Soils with aquic moisture regimes. USDA National Hydric Soil Committee Tour Guide, Dept. of Agron., Louisiana State Univ. Agricultural Center, Baton Rouge, LA. 78 p.

# Minnesota

## Peer Reviewed Articles

- Bell, J.C. and J.L. Richardson. 1997. Aquic conditions and hydric soil indicators for Aquolls and Albolls. P23-40. *In* M.J. Vepraskas and S.W. Sprecher (ed.) Aquic conditions and hydric soils: The problem soils. Soil Sci. Soc. Am. Special Pub. 50. SSSA, Madison, WI.
- Bell, J.C., J.A. Thompson, and C.A. Butler. 1995. Morphological indicators of seasonally-saturated soils for a hydrosequence in southeastern Minnesota. *Minnesota Academy of Science*, 59(4):25-34.
- Dolliver, H.A.S. and J.C. Bell. 2006. Using scientific visualization to represent soil hydrology dynamics. *J. Nat. Resour. Life Sci. Educ.* 35:5-11.
- Reuter, R.J. and J.C. Bell. 2001. Soils and hydrology of a wet-sandy catena in east-central Minnesota. *Soil Sci. Soc. Am. J.* 65:1559-1569.
- Reuter, R.J. and J.C. Bell. 2003. Hillslope hydrology and soil morphology for a wetland basin in south-central Minnesota. *Soil Sci. Soc. Am. J.* 67:365-372.
- Thompson, J. A., and J. C. Bell. 1996. A color index for identifying hydric conditions for seasonally-saturated conditions in prairie soils in Minnesota. *Soil Sci. Soc. Am. J.* 60:1979-1988.
- Thompson, J.A. and J.C. Bell. 1998. Hydric conditions and hydromorphic properties within a Mollisol catena in southeastern Minnesota. *Soil Sci. Soc. Am. J.* 62:1116-1125.
- Thompson, J.A. and J.C. Bell. 2000. Hydric soil indicators in Mollisol landscapes. p. 371-382. *In* J. L. Richardson and M. J. Vepraskas (ed.) *Wetland soils: Genesis, hydrology, landscapes, and classification*. Lewis Publishers, Boca Raton, FL.
- Thompson, J.A., J.C. Bell, and C.A. Butler. 1997. Quantitative soil-landscape modeling for estimating the areal extent of hydromorphic soils. *Soil Sci. Soc. Am. J.* 61: 971-980.
- Thompson, J.A., J.C. Bell, and C.W. Zanner. 1998. Hydrology and hydric soil extent within a Mollisol catena in southeastern Minnesota. *Soil Sci. Soc. Am. J.* 62:1126-1133.
- Wheeler, D.B., J.A. Thompson, and J.C. Bell. 1999. Laboratory comparison of soil redox conditions between red and brown soils in Minnesota, USA. *Wetlands* 19:607-616.

## **Ph.D. Dissertations**

Reuter, R.J. 1999. Spatial and temporal relations between soil processes, morphology and hydrology in Minnesota landscapes. Ph.D. Diss. Dept. of Soil, Water and Climate, Univ. of Minnesota, St. Paul, MN.

Thompson, J.A. 1996. Pedogenesis and morphology of prairie soils subject to hydric soil conditions. Ph.D. Diss. Dept of Soil, Water and Climate, Univ. of Minnesota, St. Paul, MN.

## **M.S. Theses**

Butler, C.A. 1994. Modeling soil properties from terrain attributes on a hillslope in west-central Minnesota. M.S. Thesis. Dept of Soil Sci., Univ. of Minnesota, St. Paul, MN

DeBonis, D. 1997. Design and evaluation of hypermedia resources for hydric soils education. M.S. Thesis. Dept of Rhetoric, Univ. of Minnesota, St. Paul, MN.

Swanson, H.A. 2003. Using quantitative landscape modeling and scientific visualization to characterize soil hydrologic dynamics. M.S. Thesis. Water Resources Science, Univ. of Minnesota, St. Paul, MN.

## **Other**

Bell, J.C., C.A. Butler, and J.A. Thompson. 1996. Soil hydrology and morphology of three Mollisol hydrosequences in Minnesota. pp. 69-93. *In* J.S. Wakeley et al. (ed.) Preliminary investigations of hydric soil hydrology and morphology in the United States. Wetlands Research Program Technical Report WRP-DE-13, US Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS.

DeBonis, D.J., J.C. Bell, A.H. Duin, and M. Whited. 1997. Hydric soils interactive: An interactive CD-based teaching module for hydric soils training. Natural Resources Conservation Service. Wetland Institute, Lincoln. NE.

Wheeler, D.B. and D. Gustafson. 2004. Anoka Sand Plain training manual. Univ. of Minnesota On-Site Training Program. Univ. of Minnesota, St. Paul, MN.

Wheeler, D., L. Kissing, B. Elf, G. Larson, J. Anderson, and J. Bell. 2007. Landscapes and soil saturation. Univ. of Minnesota Extension, St. Paul, MN.

## **New Hampshire**

### **Peer Reviewed Articles**

none found

### **Ph.D. Dissertations**

none found

### **M.S. Theses**

Dudley, Karen. 2001. Indicators of saturation in albic horizons of sandy outwash soils of New Hampshire and Maine. M.S. Thesis. Univ. of New Hampshire, Durham, NH.

Muzzey, Joyce S. 1991. Soil-water and micromorphological relationships in some sandy New Hampshire soils M.S. Thesis. Dept. of Forest Resources, NH. Univ. of New Hampshire, Durham, NH.

Sales, Tracie. 2007. Relationship between soil temperature and the onset of vegetative growth in northern New Hampshire. M.S. Thesis. Antioch Univ. New England.

### **Other**

Dudley, K., W.C. Lynn, P.J. Schoeneberger, D. Harms, J. Homer, and S. Hundley (eds). 2005. The Mascoma Headwaters Project: A study of soil morphology and temperature in New Hampshire for documenting hydric soil indicators and wetland boundary criteria. Soil Survey Investigations Report No. 50. USDA, NRCS National Soil Survey Center.

Dudley, K., and E.A. Rochette. 2005. Indicators of saturation in albic horizons of New Hampshire and Maine. *Soil Survey Horizons* 46:59-67.

Evans, C.V. 1996. Preliminary investigations of hydric soil hydrology and morphology in New Hampshire. p. 114-126. *In* J.S. Wakeley (ed.) Preliminary investigations of hydric soil hydrology and morphology in the United States. Wetlands Research Program Technical Report WRP-DE-13, US Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS.



## North Dakota

### Peer Reviewed Articles

Doolittle J.A., B. Jenkinson, D. Hopkins, M. Ulmer, and W. Tuttle. 2006. Hydropedological investigations with ground-penetrating radar (GPR): estimating water-table depths and local ground water flow pattern in areas of coarse-textured soils. *Geoderma* 131(3/4):317-329.

Freeland, J.A., J.L. Richardson, and L.A. Foss. 1999. Soil indicators of agricultural impacts on northern prairie wetlands: Cottonwood Lake Research Area, North Dakota, USA. *Wetlands* 19(1): 56-64.

Hopkins, D.G., and J.L. Richardson. 1999. Detecting a salinity plume in an unconfined sandy aquifer and assessing secondary soil salinization using electromagnetic induction techniques. *Geohydrology J.* 7(4):380-392

Hopkins, D.G., and G.L. Running. 2000. Soils, dunes, and prairie vegetation: Lessons from the Sandhills of North Dakota. Chapter 3, p. 39-57. *In* T. Radenbaugh and P. Douaud (ed.) *Changing prairie landscapes*. Canadian Plains Research Center, CPP 32. Univ. of Regina. Saskatchewan.  
of North Dakota. *Prairie Forum* 25 (1):45-64.

Richardson, J.L., J.L. Arndt, and J.A. Montgomery. 2000. Hydrology of wetland and related soils. p. 35-84. *In* J.L. Richardson and M.J. Vepraskas (ed.) *Wetland soils: Genesis, hydrology, landscapes, and classification*. Lewis Publ., Boca Raton, FL.

Richardson, J., L.P. Wilding, and R.B. Daniels. 1992. Recharge and discharge of groundwater in the aquic moisture regime illustrated with flownet analysis. *Geoderma*. 53:65-78.

Seelig, B.D., and J.L. Richardson. 1994. Sodic soil toposequence related to focused water flow. *Soil Sci. Soc. Am. J.* 58:156-163.

### Ph.D. Dissertations

Freeland, John Arthur, Jr. 1997. Soils and sediments as indicators of agricultural impact on northern prairie wetland. Ph.D. Diss. North Dakota State Univ., Fargo, ND.

Hopkins, D.G. 1997. Hydrologic and abiotic constraints on soil genesis and natural vegetation patterns in the Sandhills of North Dakota. Ph.D. Diss. North Dakota State Univ.. Fargo, ND.

## **M.S. Theses**

Cymbaluk W.P. 2002. Soil distribution, stratigraphy, and hydrology on a thin till-shale salinized landscape. M.S. Thesis. North Dakota State Univ. Fargo, ND.

Soukup, Todd Allen. 1999. Groundwater flow and its effects on soil development in a transitional Minnesota climate. M.S. Thesis. North Dakota State Univ. Fargo, ND.

## **Abstracts**

Doolittle, J., D. Hopkins, B. Jenkinson, and M. Ulmer. 2003. Mapping water table depths and groundwater flow patterns in sandy soils with GPR. Soil Sci. Soc. Am. Annual Meetings, Denver, CO.

Hopkins, D.G., B.J. Jenkinson, and J.C. Bell. 2000. Stabilized sand dune landscapes and wetlands from subhumid prairie to humid forest conditions. p. 322-323. *In* Quebec 2000: Millennium Wetland Event. August 6-12, Quebec, Canada (invited paper).

Hopkins, D.G., J.L. Richardson, W. Barker, L. Foss, D. Whitted, and T. Schmidt. 2001. Edaphic factors that govern distribution of native vegetation: Sheyenne National Grasslands, ND. Agron. Abstracts.

Jenkinson, B.J., and D.G Hopkins. 2004. Interactions between climatic change and biological expression in wet soil landscapes. Soils and Wetland Assessment II Symposium. Soil Sci. Soc. Am. Annual Meetings, Seattle, WA. (Invited paper)

Running G.L. IV, and D.G. Hopkins. 2000. Minor annual climate variability: impact on grassland habitat types, Sheyenne National Grasslands, southeastern North Dakota. Poster presented at the American Assoc. of Geographers annual meeting, Pittsburg, PA. (juried exhibit).

Soukup T.A., Hopkins D.G. and J.L. Richardson. 1995. Effect of groundwater flow on soil genesis. Manitoba Society of Soil Science Annual Meeting. Winnipeg, MB.

## **Other**

Hopkins, D. 1998. Chapter 3: Thinking like a prairie. p. 30-32. *In* The Valley of Grass: Tallgrass Prairie and Parkland of the Red River Region, North Star Press, St. Cloud, MN.

Hopkins, D.G., and G.L. Running. 2000. Soils, dunes, and prairie vegetation: lessons from the Sandhills

Richardson, J.L., T.A. Soukup, and D.G. Hopkins. 1996. Preliminary investigations of hydric soil hydrology and morphology in North Dakota., p. 94-113. *In* J.S. Wakeley et al. (ed.) Preliminary investigations of hydric soil hydrology and morphology in the United

States. Wetlands Research Program Technical Report WRP-DE-13, US Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS.

# Oregon

## Peer Reviewed Articles

Austin, W.E., and J.H. Huddleston. 1999. Viability of permanently installed platinum redox electrodes. *Soil Sci. Soc. Am. J.* 63:1757-1762.

Clausnitzer, D., and J.H. Huddleston. 2002. Wetland determination of a southeast Oregon vernal pool and management implications. *Wetlands* 22(4):677-685.

Clausnitzer, D., J.H. Huddleston, E. Horn, M. Keller, and C. Leet. 2003. Hydric soils in a southeastern Oregon vernal pool. *Soil Sci. Soc. Am. J.* 67:951-960.

D'Amore, D.V. S.R. Stewart, and J.H. Huddleston. 2004. Saturation, reduction, and the formation of iron-manganese concentrations in the Jackson-Frazier wetland, Oregon. *Soil Sci. Soc. Am. J.* 68:1012-1022.

D'Amore, D.V., S.R. Stewart, J.H. Huddleston, and J.R. Glasmann. 2000. Stratigraphy and hydrology of the Jackson-Frazier wetland, Oregon. *Soil Sci. Soc. Am. J.* 64:1535-1543.

## Book Chapters (Peer Reviewed)

Lynn, W. C., and W. Austin. 1998. Oxymorphic manganese (iron) segregations in a wet soil catena in the Willamette Valley, Oregon. p. 209-226. *In* M.C. Rabenhorst et al. (ed.) *Quantifying soil hydromorphology*. Soil Sci. Soc. Am. Soc. Spec. Publ. No. 54., SSSA, Madison, WI.

McDaniel, P.A., J.H. Huddleston, C.L. Ping, and S.L. McGreehan. 1997. Aquic conditions in Andisols of the northwest US. p. 99-111. *In* M.J. Vepraska and S.W. Sprecher (ed.) *Aquic conditions and hydric soils: The problem soils*. Soil Sci. Soc. Am. Special Pub. 50. SSSA, Madison, WI.

## Ph.D. Dissertations

Clausnitzer, David William. 2000. Hydric soils in eastern Oregon temporary pools. Ph.D. Diss. Dept. of Crop and Soil Sci., Oregon State Univ., Corvallis, OR.

Stewart, Scott R. 1997. Origin and age of Fe-Mn-P concretions and nodules in an Oregon wetland. Ph.D. Diss. Oregon State Univ., Corvallis, OR.

## M.S. Theses

Austin, William. 1984. Duration of saturation and redox potentials in selected Willamette Valley soils. M.S. Thesis. Dept. Crop & Soil Sci., Oregon State Univ., Corvallis, OR.

Dave D'Amore.1995. The stratigraphy, hydrology, and redoximorphic character of the Jackson-Frazier wetland. M.S. Thesis. Dept. Crop & Soil Sci., Oregon State Univ., Corvallis, OR.

Kathy Verble. 1999. Investigations of soil morphology, hydrology, reduction-oxidation potentials, and stratigraphy on a selected hillslope in western Oregon M.S. Thesis. Dept. Crop & Soil Sci., Oregon State Univ., Corvallis, OR.

### **Other**

Huddleston, J.H., and W. Austin. 1996. Preliminary investigations of hydric soil hydrology and morphology in Oregon, p.127-141. *In* J.S. Wakeley et al. (ed.) Preliminary investigations of hydric soil hydrology and morphology in the United States. Wetlands Research Program Technical Report WRP-DE-13, US Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS.

## Texas

### Peer Reviewed Articles

- Carty, D.J., J.B. Dixon, L.P. Wilding, and F.T. Turner. 1988. Characterization of a pima mound-intermound soil complex in the Gulf Coast Prairie region of Texas. *Soil Sci. Soc. Am. J.*, 52:1715- 1721.
- Driese, S.G., L.C. Nordt, W.C. Lynn, C.A. Stiles, C.I. Mora, and L.P. Wilding. 2005. Distinguishing climate in the soil record using chemical trends in a Vertisol climosequence from the Texas Coast Prairie, and application to interpreting Paleozoic paleosols in the Appalachian Basin, U.S.A. *Journal of Sedimentary Research* 75:339-349.
- Greenberg, W.A., and L.P. Wilding, 1998. Evidence of contemporary and relict redoximorphic features of an Alfisol in east-central Texas. p. 227-245. *In* M.C. Rabenhorst et al. (ed.) *Quantifying soil hydromorphology* Soil Sci. Soc. Am. Soc. Spec. Publ. No. 54, SSSA, Madison, WI.
- Griffin, R.W., S.M. Starowitz, and L.P. Wilding. 1998. Wetness conditions and redoximorphic features in a microtoposequence on the Texas Coast Prairie. p. 151-172, *In* M.C. Rabenhorst et al. (ed.) *Quantifying soil hydromorphology*. Soil Sci. Soc. Am. Soc. Spec. Publ. No. 54, SSSA Madison, WI.
- Nordt, L.C., C.T. Hallmark, L.P. Wilding, and T.W. Boutton. 1998. Quantifying pedogenic carbonate accumulations using stable carbon isotopes. *Geoderma* 82:115-136.
- Nordt, L.C., L.P. Wilding, W.C. Lynn, and C.C. Crawford. 2004. Vertisol genesis in a humid climate of the coastal plain of Texas, U.S.A. *Geoderma* 122:83-102.
- Owens, P.R., L.P. Wilding, L.M. Lee, and B.E. Herbert. 2005. Evaluation of platinum electrodes and three electrode potential standards to determine electrode quality. *Soil Sci. Soc. Am. J.* 69:1541-1550.
- Richardson, J., L.P. Wilding, and R.B. Daniels. 1992. Recharge and discharge of groundwater in the aquic moisture regime illustrated with flownet analysis. *Geoderma*. 53:65-78.
- Sobecki, T.M., and L.P. Wilding. 1982. Calcic horizon distribution and soil classification in selected soils of the Texas Coast Prairie. *Soil Sci. Soc. Am. J.* 46: 1223-1227.
- Sobecki, T.M., and L.P. Wilding. 1983. Formation of calcic and argillic horizons in selected soils of the Texas Coast Prairie. *Soil Sci. Soc. Am. J.* 47:707-715.
- Vepraskas, M.J., and L.P. Wilding. 1983a. Aquic moisture regimes in soils with and without low chroma colors. *Soil Sci. Soc. Am. J.* 47:280-285.

Vepraskas, M.J., and L.P. Wilding. 1983b. Deeply weathered soils in the Texas Coastal Plain. *Soil Sci. Soc. Am. J.* 47:293-300.

Vepraskas, M.J., and L.P. Wilding. 1983c. Albic neoskeletons in argillic horizons as indices of seasonal saturation and reduction. *Soil Sci. Soc. Am. J.* 47:1202-1208.

### **Book Chapters (Peer Reviewed)**

Jacob, J.S., R.W. Griffin, W.L. Miller, and L.P. Wilding. 1997. Aquerts and aquertic soils: a querulous proposition. p. 61-77. *In* M.J. Vepraskas and S.W. Sprecher (ed.) *Aquic conditions and hydric soils: The problem soils*. Soil Sci. Soc. Am. Spec. Publ. No. 50. SSSA, Madison, WI.

Tucker, R.J., L.R. Drees, and L.P. Wilding. 1994. Signposts old and new: Active and inactive redoximorphic features; and seasonal wetness in two Alfisols of the gulf coast region of Texas, U. S.A. p. 149-159. *In* A.J. Ringrose-Voase and G.S. Humphreys (ed.), *Soil micromorphology: Studies in management and genesis*. Proc. IX Int. Working Meeting on Soil Micromorphology, Townsville, Australia, July 1992. *Developments in Soil Science 22*, Elsevier, Amsterdam.

Vepraskas, M.J., L.P. Wilding, and L.R. Drees. 1994. Aquic conditions for Soil Taxonomy: concepts, soil morphology and micromorphology. p. 117-131. *In* A.J. Ringrose-Voase and G.S. Humphreys (ed.) *Soil micromorphology: Studies in management and genesis*. Proc. IX Int. Working Meeting on Soil Micromorphology, Townsville, Australia, July 1992. *Developments in Soil Science 22*, Elsevier, Amsterdam.

Wilding, L.P. and J.A. Rehage. 1985. Pedogenesis of soils with aquic moisture regimes. p. 139-157. *In* *Wetland soils: Characterization, classification, and utilization*. Proceedings of International Workshop. IRRI Los Banos, Philippines.

### **Ph.D. Dissertations**

Griffin, Richard Wayne. 1991. A study of aquic conditions of seasonally wet soils on the coast prairie of Texas. Ph.D., Texas A&M University, College Station, TX.

Owens, Phillip Ray. 2001. Inferring oxygen status in soils with iron rods. Ph.D. Diss. Texas A&M University, College Station, TX.

Rehage, J.A. 1985. Hydrology and genesis of claypan soils in eastcentral Texas. Ph.D. Diss. Texas A&M University, College Station, TX.

Vepraskas, Michael John. 1980. Soil morphology and moisture regimes along a hillslope in the Texas Coastal Plain. Ph.D. Diss. Texas A&M University, College Station, TX.

### **M.Sc. Theses from Texas A&M University**

Baker, Andrew D. 2002. Bioavailable organic carbon in wetland soils across a broad climogeographic area. M.S. thesis. Texas A&M Univ., College Station TX.

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