

Publication List  
Francis Doan Hole, Professor Emeritus,  
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- Hole, F.D. 1943. Correlation of the glacial border drift of north-central Wisconsin. *Am. Journ. Sci.* 241:498-516.
- Hole, F.D., N.P. Dahlstrand, and R.J. Muckenhirk. 1947. Soils of Langlade Co., WI (with colored soil map). *Bul. 74, Soil Survey Div., WGNHS, Univ. of Wisconsin-Madison.*
- Hole, F.D., G.H. Robinson, and R.J. Muckenhirk. 1948. Soils of Barron Co., WI (colored soil map with brief report on back of map). *Soil Survey Div., WGNHS, Univ. of Wisconsin-Madison.*
- Nygard, I.J., and F.D. Hole. 1949. Soil classification and soil maps: units of mapping. *Soil Sci.* 67:163-168.
- Hole, F.D. 1950. The use of relief models in training soil surveyors. *Agron. J.* 45:520-521.
- Hole, F.D., G.H. Robinson, and A.V. Miller. 1950. Soils of Richland Co., WI (individual black and white soil maps of the 16 towns, and a general soil map of the county). *Soil Survey Div., WGNHS, Univ. of Wisconsin-Madison.*
- Berger, K.C., F.D. Hole, and J.N. Beardsley. 1952. A soil productivity score card. *Soil Sci. Soc. Am. Proc.* 16:307-309.
- Hole, F.D. F.D. Peterson, and G.H. Robinson. 1952. The distribution of soils and slopes on the major terraces of southern Richland Co., Wisconsin. *Trans. Wisc. Acad. Sci., Arts & Letters* 41:73-81.
- Hole, F.D., G.H. Robinson, G. Dehnert, and F.C. Dahms. 1952. Soils of Grant Co. (black and white map, and some aerial mosaic soil maps of 13 towns of Grant Co.). *Soil Survey Div., WGNHS, Univ. of Wisconsin-Madison.*
- Nygard, I.J., P.R. McMiller, and F.D. Hole. 1952. Characteristics of some podzolic brown forest and chernozem soils of the northern portion of the Lake States. *Soil Sci. Soc. Am. Proc.* 16:123-129.
- Hole, F.D. 1953. Suggested terminology for describing soils as three-dimensional bodies. *Soil Sci. Soc. Am. Proc.* 17:131-135.
- Hole, F.D., G.B. Lee, and E.A. Brickbauer. 1953. Soils of Dodge Co., WI (maps in black and white or on aerial mosaics of 4 towns of Dodge Co.). *Soil Survey Div., WGNHS, Univ. of Wisconsin-Madison.*
- Hole, F.D., G.B. Lee, I.O. Hembre, and D.C. Aebscher. 1953. What's in that soil map? *Bul., Soil Survey Div., WGNHS, Univ. of Wisconsin-Madison.* 16 p.
- Hole, F.D., and G.B. Lee 1955. Introduction to the soils of Wisconsin. *Bul. 79, Soil Survey Div., WGNHS, Univ. of Wisconsin-Madison.*

- Hole, F.D. 1956. Soil survey of Waukesha Co., WI (with color soil map). Bul. 81, Soil Survey Div., WGNHS, Univ. of Wisconsin, Madison.
- Hole, F.D. 1956. Soil survey of Grant Co., WI. Bul. 80, Soil Survey Div., WGNHS, Univ. of Wisconsin-Madison.
- Noel, W.A., and F.D. Hole. 1958. Soil color as an indication of nitrogen content in some Wisconsin soils. Trans. Wisc. Acad. Sci., Arts & Letters 48:11-16.
- Robinson, G.H., A.J. Vessel, R.A. Erickson, and F.D. Hole. 1958. Soil survey of Barron Co., WI. Soil Series 1948, No. 1, USDA.
- Buol, S.W., and F.D. Hole. 1959. Some characteristics of clay skins on peds in the B horizon of a gray-brown podzolic soil. Soil Sci. Soc. Am. Proc. 23:239-241.
- Hole, F.D. and K.O. Schmude. 1959. Soil survey of Oneida Co., WI (with color soil map). Bul. 82, Soil Survey Div., WGNHS, Univ. of Wisconsin, Madison.
- Aandahl, A.R., J.K. Ableiter, H.F. Arneman, O.W. Bidwell, J. Elder, F.D. Hole, N. Holowaychuk, H.H. Krusekopf, R.T. Odell, H.W. Omodt, F.D. Riecken, H.P. Ulrich, F.C. Westin, E.P. Whiteside, and R.J. Muckenhira. 1960. Soils of the North Central region of the United States (with large colored soil map, and soil classification charts). Agri. Exp. Sta. Bul. 544, Univ. of Wisconsin, Madison.
- Glenn, R.C., M.L. Jackson, F.D. Hole, and G.B. Lee. 1960. Chemical weathering of layer silicate clays in loess-derived tama silt loam of southwestern Wisconsin. In Clays and Clay Minerals, 8th Cong., pp. 63-83. Pergamon Press, New York, NY.
- Hole, F.D., and M. Hironaka. 1960. An experiment in ordination of some soil profiles. Soil Sci. Soc. Am. Proc. 24:309-312.
- Ableiter, J.K., and F.D. Hole. 1961. Soil survey of Bayfield Co., WI. Soil Survey Series, 1939. No. 30, USDA.
- Buol, S.W., and F.D. Hole. 1961. Clay skin genesis in Wisconsin. Soil Sci. Soc. Am. Proc. 25:377-379.
- Hole, F.D. 1961. A classification of pedoturbations and some other processes and factors of soil formation in relation to isotropism and anisotropism. Soil Sci. 91:375-377.
- Gaikawad, S.T., and F.D. Hole. 1962. Characteristics and genesis of a podzol soil in Florence Co., Wisconsin. Trans. Wis. Acad. Sci., Arts & Letters 50:183-190.
- Hole, F.D., G.W. Olson, K.O. Schmude, and C.J. Milfred. 1962. Soil survey of Florence Co., WI. Bul. 84, Soil Survey Div., WGNHS, Univ. of Wisconsin, Madison.
- Nielsen, G.A., and F.D. Hole. 1963. A study of natural processes of incorporation of organic matter into soil in the University of Wisconsin Arboretum. Trans. Wis. Acad. Sci., Arts & Letters 51:213-227.
- Bidwell, O.W., and F.D. Hole. 1964. An experiment in the numerical classification of some Kansas soils. Soil Sci. Soc. Am. Proc. 28:263-268.
- Bidwell, O.W., and F.D. Hole. 1964. Numerical taxonomy and soil classification. Soil Sci. 97:58-62.

- Nielsen, G.A., and F.D. Hole. 1964. Earthworms and the development of coprogenous A1 horizons in forest soils of Wisconsin. *Soil Sci. Soc. Am. Proc.* 28:426-430.
- Bidwell, O.W., and F.D. Hole. 1965. Man as a factor of soil formation. *Soil Sci* 98:65-72.
- Bouma, J., and F.D. Hole. 1965. Soil-peels and a method for estimating biopore size distribution in soils. *Soil Sci. Soc. Am. Proc.* 29:483-485.
- Milfred, C.J., F.D. Hole, and J.H. Torric. 1967. Sampling for pedographic modal analysis of an Argillic horizon. *Soil Sci. Soc. Am. Proc.* 31:244-247.
- Milfred, C.J., G.W. Olson, and F.D. Hole. 1967. Soil resources and forest ecology of Menominee Co., Wisconsin. Bul. 85, WGNHS, Univ. of Wisconsin-Extension. 203 p.
- Olcott, P.G., F.D. Hole, and G.F. Hanson. 1967. Preliminary report on the irrigation potential of Dunn Co., WI. Spec. Report No. 1, GNHS, Soil Sur. Div., Univ. of Wisconsin-Extension, 17 p.
- Olson, G.W., and F.D. Hole. 1967. The fragipan in soils of northeastern Wisconsin. *Trans. Wisc. Acad. Sci. Arts & Letters* 56:174-184.
- Borchardt, G.A., F.D. Hole, and M.L. Jackson. 1968. Genesis of layer silicates in representative soils in a glacial landscape of southeastern Wisconsin. *Soil Sci. Soc. Am. Proc.* 32:399-403.
- Hole, F.D. 1968. What is a well-developed soil? *Soil Survey Horizons* 9(1):12-13.
- Hole, F.D. 1968. The Mindoro cut. *Soil Survey Horizons* 9(3):15-18.
- Hole, F.D., M.T. Beatty, C.J. Milfred, G.B. Lee, and A.J. Klingelhoets. 1968. Soils of Wisconsin. Colored wall map. Scale 1:710,000. GNHS, Univ. of Wisconsin-Extension.
- Hole, F.D., M.T. Beatty, G.B. Lee, R.D. Sale, and J.T. Liu. 1968. Soils of Wisconsin. Black and white (transparent) overlay map for use with USGS Topographic Map Quadrangles, scale of 1:250,000. GNHS, Univ. of Wisconsin-Extension.
- Salem, M.Z., and F.D. Hole. 1968. Ant (*formica exsectoides*) pedoturbation in a forest soil. *Soil Sci. Soc. Am. Proc.* 32:563-567.
- Allan, R.J., and F.D. Hole. 1969. Clay accumulations in some Hapludalfs as related to calcareous till and incorporated loess on drumlins in Wisconsin. *Soil Sci. Soc. Am. Proc.* 32:403-408.
- Al-Rawi, A.H., M.L. Jackson, and F.D. Hole. 1969. Mineralogy of some arid and semiarid land soils of Iraq. *Soil Sci.* 107:480-486.
- Jackson, M.L., and F.D. Hole. 1969. Pedogenesis during the Quaternary. *Soil Sci.* 107:395-397.
- Salem, M.Z., and F.D. Hole. 1969. Soil geography and factors of soil formation in Afghanistan. *Soil Sci.* 107:289-295.

- Bouma, J., and F.D. Hole. 1970. Soil structure and hydraulic conductivity of adjacent virgin and cultivated pedons at two sites: a Typic Argiudoll (silt loam) and a Typic Eutrochrept (clay). *Soil Sci. Soc. Am. Proc.* 35:316-319.
- Bouma, J., F.D. Hole, and D.I. Hillel. 1970. Development of a field procedure for predicting movement of liquid wastes in soils. *Rept. No. 1, GNHS, Univ. of Wisconsin-Extension.*
- Bouma, J., F.D. Hole, D.I. Hillel, and C.R. Amerman. 1970. Field tests of unsaturated hydraulic conductivity by infiltration through artificial crusts. *Soil Sci. Soc. Amer. Proc.* 35:362-364.
- Fenton, T.D., R.T. Odell, F.D. Hole, F.C. Westin, and R.D. Sale 1970. Soil yield potential. *Crops and Soils* 22:7-10.
- Hole, F.D. 1970. Liberation of the truth-energy within. *Wis. Academy Review* 16:20-21.
- Hole, F.D. 1970. Applied ecology and friends meetings. *Friends Journal* 16:516-517.
- Hole, F.D. 1970. Soils map of southern Wisconsin with route and stops added. *Info. Circ. No. 15, GNHS, Univ. Wisconsin-Extension.* A-8 to A-9.
- Hole, F.D. 1970. Generalized soil map of East Central Wisconsin. *Info. Circ. No. 13, GNHS, Univ. Wisconsin-Extension.* 6-7.
- Hole, F.D., and G.A. Nielsen. 1970. Soil genesis under prairie. *Proc. Symp. on Prairie and Prairie Restoration*, Sept. 14, 1968, Knox College, Galesburg, IL. p. 28-34.
- Milfred, C.J., and F.D. Hole. 1970. Soil survey of Jefferson County, WI. *Bul. 86. WGNHS.* 106 p.
- Bouma, J., and F.D. Hole. 1971. Development of a field procedure for predicting movement of liquid wastes in soils. *Rept. No. 2, GNHS, Univ. of Wisconsin-Extension.*
- Lambert, J.L., and F.D. Hole. 1971. Hydraulic properties of an Ortstein horizon. *Soil Sci. Soc. Am. Proc.* 35:785-787.
- Bouma, J., W.A. Ziebell, W.G. Walker, P.G. Olcott, E. McCoy, and F.D. Hole. 1972. Soil absorption of septic tank effluent. *Info. Circ. No. 20, GNHS, Univ. Wisconsin-Extension.*
- Hole, F.D. 1972. Soil-physical basis of life. *Teem (Teaching Enrichment Environmental Materials)*, Vol. 1, No. 1, Madison, WI. pp. 9-11.
- Hole, F.D., and K.G. Watterston. 1972. Some soil water phenomena as related to manipulation of cover in the Curtis Prairie, the Univ. of Wisconsin Arboretum: a preliminary report. *Proc. Second Prairie Conf.*, Sept. 19, 1970, the University of Wisconsin-Madison. pp. 49-57.
- Musolf, G.E., and F.D. Hole. 1972. Lowery Wisconsin River Valley soil resources and use potentials. *Trans. Wisc. Acad. Sci. Arts & Letters* LX:201-209.
- Hole, F.D., M.T. Beatty, G.B. Lee, and A.J. Klingelhoets. 1973. *Soils of Wisconsin. Folder color map. GNHS, Univ. of Wisconsin-Extension.*

- Salem, M.Z., and F.D. Hole 1973. Properties of certain soils of Afghanistan. *Soil Sci.* 116:178-190.
- Hole, F.D. 1974. Wild soils of the Pine-Popple Rivers Basin. *Trans. Wis. Acad. Sci., Arts & Letters* 62:37-50.
- Hole, F.D. 1974. Soil as an organism. p. 16 *In* Tammings, E.C. (ed.) Options for the future, Phenomenon of Man Project, 8932 Reseda Blvd., Suite 204, Northridge, CA 91324.
- Hole, F.D. 1974. Soil association productivity analysis. General ratings with respect to crop, livestock and forest yields on soil associations of Wisconsin. *Wis. Dept. of Administration, Madison, WI.* 136 p.
- Hole, F.D., D. Every, and M. Lison. 1974. Detailed soil map and report for the Univ. of Wisconsin Foundation property north of Verona, Dane county, Wisconsin. 75 p.
- Stearns, F., F.D. Hole, and J. Klopatek. 1974. Soils of the Lake Michigan Drainage Basin, an Overview. *In* Environmental Status of the Lake Michigan Region, vol. 9. ANL/ES-40. Argonne National Lab, Argonne, IL. 22 p.
- Bouma, J., D.J. Van Rooyen, and F.D. Hole. 1975. Estimation of comparative water transmission of two adjacent virgin and cultivated pedons in Wisconsin. *Geoderma* 13:73-88.
- Hole, F.D. 1975. Soil surveys for town and country. A2293. Univ. of Wisconsin-Extension. 4 p.
- Hole, F.D. 1975. Some relationships between forest vegetation and Podzol B horizons in soils of Menominee Tribal lands, Wisconsin, USA (In Russian). *Pochovovdeniye* (Soviet Soil Science)12:115-124.
- Hole, F.D. 1975. In recognition of Marion L. Jackson on the occasion of his sixty-first birthday. *Soil Sci.* 120:322-326.
- Hole, F.D. 1975. Dr. Johannes Bouma and ten years: an appreciation. *Soil Survey Horizons* 16(2):17-18
- Hole, F.D. 1976. Soils of Wisconsin. Univ. of Wisconsin Press. 223 p.
- Hole, F.D. 1976. A state soil. *Soil Survey Horizons* 17(4):3-4.
- Hole, F.D. 1976. Soil profile excavations as museum exhibits: a proposal. *Soil Survey Horizons* 17(4):5-8.
- Hovland, M.J., and F.D. Hole. 1976. The kettle moraine, its origin and conservation. A study guide. G2245. Univ. of Wisconsin Extension.
- Zaporozec, A., and F.D. Hole. 1976. Resource suitability analysis in regional planning - with special reference to Wisconsin, USA. *Geoforum* 7:13-22.
- Hole, F.D. 1977. Photo-mosaic soil map of Wisconsin. A2822-1. GNHS, Univ. of Wisconsin-Extension.

- Luxmoore, R.J., D.J. van Hooyen, F.D. Hole, J.B. Bankin, and R.A. Goldstein. 1977. Field water balance and simulated water relations of prairie and oak-hickory vegetation on deciduous forest soils. *Soil Sci.* 123:77-84.
- Pavlik, H.F., and F.D. Hole. 1977. Soilscape analysis of slightly contrasting terrains in southeastern Wisconsin. *Soil Sci. Am. Soc. Proc.* 41:407-413.
- Hole, F.D. 1978. An approach to landscape analysis with emphasis on soils. *Geoderma* 21:1-23.
- Richardson, J.L., and F.D. Hole. 1978. Influence of vegetation on water repellency in selected western Wisconsin soils. *Soil Sci. Soc. Am. J.* 42:465-467.
- Richardson, J.L., and F.D. Hole. 1979. Mottling and iron distribution in a Glossoboralf-Haplaquoll hydrosequence on a glacial moraine in northwestern Wisconsin. *Soil Sci. Soc. Am. J.* 43:552-558.
- Buol, S.W., F.D. Hole, and R.J. McCracken. 1980. Soil genesis and classification. Iowa State Univ. Press. 360 pp.
- Habermann, G.M., and F.D. Hole. 1980. Soilscape analysis in terms of pedogeomorphic fabric: an exploratory study. *Soil Sci. Soc. Am. J.* 44:336-340.
- Harpstead, M.I., and F.D. Hole. 1980. Soil science simplified. IA State Univ. Press, Ames, IA. 121 p.
- Hole, F.D. 1980. Our native soil ... more than dirt. Envir. Res. Unit, UW-Extension, 8 p.
- Hole, F.D. 1980. Approaches to teaching about soils. Report of Proc. 26th Ann. Conf. of Soil and Water Conservation Districts, UW-Extension, pp. 55-57.
- Hole, F.D. 1980. Solubrius mud. *Wis. Nat. Resources* 34:11-13.
- Hole, F.D., and E.J. Tyler 1980. Field guide book, 7th annual three-day soil study tour. GNHS, Univ. of Wisconsin-Extension. 150 p.
- Hole, F.D. 1981. Effects of animals on the soil. *Geoderma* 25:75-112.
- Hole, F.D. 1981. Dust off the earth. *Wis. Nat. Resources* 5(5):7-9.
- Hole, F.D., and P.E. Fixen. 1981. Conversations with Terra Loam, the Talking Soil. 4-H soil activity, Extension Bulletin, UW-Extension.
- Hole, F.D., T. McIntosh, J. Day, and R. Stieglitz. 1981. Guidebook, First annual 2-day land use study tour. UW-Madison and UW-Green Bay.

*This publication list was prepared by the Department of Soil Science at the University of Wisconsin-Madison from materials at hand and may not be complete. Please bring omissions to our attention.*