**Peat Hydraulic Conductivity References**

|  |
| --- |
| 1. Baden, W. and Eggelsmann, R., 1961. Moorhydrologische Untersuchungen am Westrand des Steinhuder Meeres zur Festellung eines Unterirdischen Seeabflusses. Wasser und Baden, 12, pp.403-410.
 |
| 1. Baird, A.J., 1997. Field estimation of macropore functioning and surface hydraulic conductivity in a fen peat. *Hydrological Processes*, *11*(3), pp.287-295.
 |
| 1. Baird, A.J., Milner, A.M., Blundell, A., Swindles, G.T. and Morris, P.J., 2016. Microform‐scale variations in peatland permeability and their ecohydrological implications. Journal of Ecology, 104(2), pp.531-544.
 |
| 1. Ballard, C.E., McIntyre, N., Wheater, H.S., Holden, J. and Wallage, Z.E., 2011. Hydrological modelling of drained blanket peatland. Journal of Hydrology, 407(1-4), pp.81-93.
 |
| 1. Beckwith, C.W., Baird, A.J. and Heathwaite, A.L., 2003. Anisotropy and depth‐related heterogeneity of hydraulic conductivity in a bog peat. I: Laboratory measurements. Hydrological processes, 17(1), pp.89-101.
 |
| 1. Boelter DH. 1965. Hydraulic conductivity of peats. Soil Science 100: 227–231.
 |
| 1. Branham, J.E. and Strack, M., 2014. Saturated hydraulic conductivity in Sphagnum‐dominated peatlands: Do microforms matter?. Hydrological Processes, 28(14), pp.4352-4362.
 |
| 1. Bromley, J., Robinson, M. and Barker, J.A., 2004. Scale‐dependency of hydraulic conductivity: an example from Thorne Moor, a raised mire in South Yorkshire, UK. Hydrological processes, 18(5), pp.973-985.
 |
| 1. Burke, W. (1978). Long-term effects of drainage and land use on some physical properties of blanket peat. Irish Journal of Agricultural Research, 315-322.
 |
| 1. Clay, G.D., Worrall, F., Clark, E. and Fraser, E.D., 2009. Hydrological responses to managed burning and grazing in an upland blanket bog. Journal of Hydrology, 376(3-4), pp.486-495.
 |
| 1. Clymo, R.S., 2004. Hydraulic conductivity of peat at Ellergower Moss, Scotland. Hydrological Processes, 18(2), pp.261-274.
 |
| 1. Cunliffe, A.M., Baird, A.J. and Holden, J., 2013. Hydrological hotspots in blanket peatlands: Spatial variation in peat permeability around a natural soil pipe. Water Resources Research, 49(9), pp.5342-5354.
 |
| 1. Dai, T.S. and Sparling, J.H., 1973. Measurement of hydraulic conductivity of peats. Canadian Journal of Soil Science, 53(1), pp.21-26.
 |
| 1. Flynn, R., Mackin, F., McVeigh, C. and Renou‐Wilson, F., 2022. Impacts of a mature forestry plantation on blanket peatland runoff regime and water quality. Hydrological Processes, 36(2), p.e14494.
 |
| 1. Foteu Madio, E.S. and Dykes, A.P., 2018. Botanical and geotechnical characteristics of blanket peat at three Irish bogflows. Environmental Geotechnics, 9(1), pp.36-54.
 |
| 1. Gafni, A. and Brooks, K.N., 1986. Tracing approach to determine groundwater velocity in peatlands. Hydrological Science and Technology, 2(4), pp.17-23.
 |
| 1. Galvin, L.F. and Hanrahan, E.T., 1967. Steady state drainage flow in peat. Highway Research Record, (203).
 |
| 1. Galvin, L.F., 1976. Physical properties of Irish peats. Irish Journal of Agricultural Research, pp.207-221.
 |
| 1. Glaser, P.H., Rhoades, J. and Reeve, A.S., 2021. The hydraulic conductivity of peat with respect to scaling, botanical composition, and greenhouse gas transport: Mini-aquifer tests from the Red Lake Peatland, Minnesota. Journal of Hydrology, 596, p.125686.
 |
| 1. Hobbs, N.B., 1986. Mire morphology and the properties and behaviour of some British and foreign peats. Quarterly Journal of Engineering Geology, 19(1), pp.7-80.
 |
| 1. Holden, J. and Burt, T.P., 2003. Hydraulic conductivity in upland blanket peat: measurement and variability. Hydrological Processes, 17(6), pp.1227-1237.
 |
| 1. Holden, J., 2009. Flow through macropores of different size classes in blanket peat. Journal of Hydrology, 364(3-4), pp.342-348.
 |
| 1. Holden, J., Moody, C.S., Edward Turner, T., McKenzie, R., Baird, A.J., Billett, M.F., Chapman, P.J., Dinsmore, K.J., Grayson, R.P., Andersen, R. and Gee, C., 2018. Water‐level dynamics in natural and artificial pools in blanket peatlands. Hydrological Processes, 32(4), pp.550-561.
 |
| 1. Ingram, H.A.P., 1967. Problems of hydrology and plant distribution in mires. The Journal of Ecology, pp.711-724.
 |
| 1. Irwin, R.W., 1968. Soil water characteristics of some Ontario peats.
 |
| 1. Kruse, J., Lennartz, B. and Leinweber, P., 2008. A modified method for measuring saturated hydraulic conductivity and anisotropy of fen peat samples. Wetlands, 28, pp.527-531.
 |
| 1. Lewis, C., J. D. Albertson, X. Xu, and G. Kiely (2012), Spatial variability of hydraulic conductivity and bulk density along a blanket peatland hillslope, Hydrol. Processes, 26(10), 1527–1537, doi:10.1002/hyp.8252.
 |
| 1. Malmstrom, C. (1925). Nagra riktlinjer f6r torrlaggning av Norrlandska torvmarker. Skogl. Ron, 4, 1-26
 |
| 1. Morris, P.J., Baird, A.J. and Belyea, L.R., 2015. Bridging the gap between models and measurements of peat hydraulic conductivity. Water Resources Research, 51(7), pp.5353-5364.
 |
| 1. Morris, P.J., Baird, A.J., Eades, P.A. and Surridge, B.W., 2019. Controls on near‐surface hydraulic conductivity in a raised bog. Water Resources Research, 55(2), pp.1531-1543.
 |
| 1. Mulqueen, J., Rodgers, M. and Killeen, E., 1997. A note on measuring the hydraulic conductivity of peat in the field for land drainage. Irish journal of agricultural and food research, pp.249-255.
 |
| 1. Price, J.S. and Schlotzhauer, S.M., 1999. Importance of shrinkage and compression in determining water storage changes in peat: the case of a mined peatland. Hydrological processes, 13(16), pp.2591-2601.
 |
| 1. Regan, S., Flynn, R., Gill, L., Naughton, O. and Johnston, P., 2019. Impacts of groundwater drainage on peatland subsidence and its ecological implications on an Atlantic raised bog. Water Resources Research, 55(7), pp.6153-6168.
 |
| 1. Regan, S., Swenson, M., O’Connor, M. and Gill, A.L., 2020. Ecohydrology, greenhouse gas dynamics and restoration guidelines for degraded raised bogs. Johnstown Castle, Co. Wexford: Environmental Protection Agency. Report, (342).
 |
| 1. Rosa, E. and Larocque, M., 2008. Investigating peat hydrological properties using field and laboratory methods: application to the Lanoraie peatland complex (southern Quebec, Canada). Hydrological Processes: An International Journal, 22(12), pp.1866-1875.
 |
| 1. Rycroft, D.W., Williams, D.J.A. and Ingram, H.A.P., 1975. The transmission of water through peat: I. Review. The Journal of Ecology, pp.535-556.
 |
| 1. Sturges, D.L., 1968. Hydrologic properties of peat from a Wyoming mountain bog. Soil Science, 106(4), pp.262-264.
 |
| 1. Surridge, B.W., Baird, A.J. and Heathwaite, A.L., 2005. Evaluating the quality of hydraulic conductivity estimates from piezometer slug tests in peat. Hydrological Processes: An International Journal, 19(6), pp.1227-1244.
 |
| 1. Wallage, Z.E. and Holden, J., 2011. Near‐surface macropore flow and saturated hydraulic conductivity in drained and restored blanket peatlands. Soil Use and Management, 27(2), pp.247-254.
 |