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Naiomi T. Cameron^{*} (ncameron@lclark.edu), Department of Mathematical Sciences, Lewis & Clark College, 0615 SW Palatine Hill Road, Portland, OR 97219. *The Probability of an Even Number of Hills among Generalized Dyck Paths.* Preliminary report.

This investigation produces the asymptotic proportion of Dyck paths having an even number of hills. It also produces an analogous result for a generalization of Dyck paths, referred to here as ternary paths, which start at (0,0), end at (3n,0), use steps (1,1) and (1,-2) and never go below the x-axis. In the process, an analogue of the Fine number generating function is considered and certain relationships between Catalan and Fine generating functions are extended to the setting of this analogue. (Received September 13, 2010)