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David Creech* (creec1de@cmich.edu) and **Jeff Anway**. *Periodicity and asymptotics of Tchoukaillon sequences.*

Tchoukaillon is a single-player sowing game in which there is a unique board for each natural number, indexed by board size. We will examine the global periodicity properties of Tchoukaillon and the long-term asymptotic behavior that describes the surprisingly complicated relationship between board size and board length. (Received September 22, 2011)