Alex Happ* (alex.happ@uky.edu), University of Kentucky, 715 Patterson Office Tower, Lexington, KY 40506, and Richard Ehrenborg. Sums of powers of the descent set statistic.

We study the sum of the $r$th powers of the descent set statistic and how many small prime factors occur in these numbers. The results will depend upon the base $p$ expansion of $n$ and $r$. (Received September 20, 2017)