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Jonathan Webster* (jwebste@butler.edu), 4600 Sunset Ave, Indianapolis, IN 46205, and
Jon Sorenson. *The Search for Small Pseudoprimes.* Preliminary report.

It was recently verified that 3825 12305 65464 13051 is the smallest pseudoprime to the first 11 prime bases. We show that the expected cost of searching for the smallest pseudoprime to the first k prime bases up to a bound B is on the order of $B^{2/3}$. We present progress on the computational search for the smallest pseudoprimes to first $k > 11$ prime bases. (Received September 12, 2014)