1023-Z1-584 **Darren Wick*** (dwick@ashland.edu), Department of Mathematics, Ashland University, Ashland, OH 44805. Fraction Sets for Basic Digit Sets. Preliminary report.

A finite set of integers D with $0 \in D$ is basic for the base $b \in \mathbb{Z}$ if every integer can be written uniquely in the base b with digits from D. Since no sign bit is required, basic sets must have a negative base b or some negative integers in D. The fraction set for (b, D) is the set of all representable numbers with integer part zero. We discuss some properties of basic sets and investigate the structure of their fraction sets. (Received September 18, 2006)