Simulation

1. Use estimated parameters from actual data set to generate 100 simulated new data sets each that follow the data model.

2. Estimate total BTUs used (\hat{B}_i) on each simulated data set *i*.

3. Compare average of \hat{B}_i with original (B). Also compare $SD(\hat{B}_i)$ with original estimate (SD_{orig}).

Results (3 original data sets)

Ν	В	$ave(\hat{B}_i)$	SD_{orig}	$SD(\hat{B}_i)$
194	5773.6	5780.7	$\boldsymbol{\upsilon}$	93.9
142	4275.3	4280.6	68.4	111.4
140	3521.7	3526.6	72.8	65.4

Conclusions

Little or no bias in estimating total BTUs used. Estimates of variance were low on 2 of three data sets, probably because of failure of data to follow the assumed autoregressive model.