## MEMORANDUM

To: All concerned
From: Peter Fisher
Subject: Stoichometry of coffee
Date: Monday, May 23, 2016

Our Jura coffee maker uses 22 g of ground beans to make a cup of coffee. Reducing either espresso ( $11 / 2 \mathrm{oz}$.) or a regular ( 8 oz .) on a hotplate and weighing the residue gives 1 g of material transferred from the beans to the liquid coffee. It takes the machine about 1 s to make the espresso and about 10 s to make the regular, so all the transfer happens in about 1 s .

A pound of good coffee costs about $\$ 12$ and makes about 21 cups of coffee at a cost of $\$$ $0.57 /$ cup. Green mountain K-cups from Amazon are $\$ 0.68$, cheapest are $\$ 0.34$ each.

