

Misallocation or Mismeasurement?

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February 14, 2017

Abstract

Revenue per unit of inputs differs greatly across plants within countries such as the U.S. and India. Such gaps may reflect misallocation, which lowers aggregate productivity. But differences in measured average products need not reflect differences in true marginal products. We propose a way to estimate the gaps in true marginal products in the presence of measurement error in revenue and inputs. Applying our correction to U.S. manufacturing micro data eliminates an otherwise mysterious sharp downward trend in allocative efficiency from 1976–2009. For Indian manufacturing from 1985–2011, meanwhile, we estimate that true marginal products were only one-half as dispersed as measured average products.

*We are grateful to seminar participants at Stanford, the Minneapolis Fed, and the Federal Reserve Bank of Cleveland for comments. Opinions and conclusions herein are those of the authors and do not necessarily represent the views of the U.S. Census Bureau. All results have been reviewed to ensure that no confidential information is disclosed.