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## Many Children Left Behind? Textbooks and Test Scores in Kenya<sup>3</sup>

By PAUL GLEWWE, MICHAEL KREMER, AND SYLVIE MOULIN

A randomized evaluation in rural Kenya finds, contrary to the previous literature, that proxiding textbooks did not raise average text sources. Textbooks did increase the scores of the best students (those with high pretent scores) but had little effect on other students. Textbooks are written in English, most students' third language, and many students could not use them effectively. More generally, the curriculum in Kenya, and in many other developing countries, tends to be oriented toward academically strong students, leaving many students behind in societies that combine a centralized educational system; the heterogeneity in student preparation associated with rapid advocational expansion; and disproportionate elite power. (EEC. 05.8.12.128.3.15).

Many economists argue that increasing educational expenditure will have a limited impact on learning in distorted educational systems (e.g., Eric A. Hamushek 1995 and Lant Pritchett and Deon Filmer 1999). Yet even skeptics of the impact of education spending in such systems believe that providing textbooks to schools where they are scarce can substantially increase test scores (see reviews by Stephen P. Heyneman, Joseph P. Farrell, and Marmel A. Sepulveda-Stuardo 1978; Bruce Fuller 1986; Marlai ne E. Lockheed and Hamushek 1988; and Pellier and Prema Clarke 1994). Indeed, one political economy model of distortions in education suggests that spending on nonteacher inputs will raise student performance much more

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