

Preliminary. Please do not quote.

Comments welcome.

**Disentangling the Effects of Multiple Treatments — Measuring the Net
Economic Impact of the 1995 Hanshin-Awaji Great Earthquake***

by

Hiroshi Fujiki and Cheng Hsiao

March 28, 2013

Abstract

We propose a panel data approach to disentangle the impact of “one treatment” from the “other treatment” when the observed data are due to both treatments working simultaneously. We use the Great Hanshin-Awaji earthquake that took place on January 17, 1995 to illustrate our methodology. We find that there were no persistent earthquake effects. The observed persistent effects are due to structural change in Hyogo prefecture.

Key Words: Multiple Treatment Effects; Panel Data; Hanshin-Awaji Earthquake.

*We would like to thank Mitsuru Katagiri and Hiroyuki Ooi for assistance in data preparation and preliminary analysis and Qiankun Zhou for computational assistance.